



May 1, 2006

David Gray, P.E.
Office of Ecosystem Protection
U.S. Environmental Protection Agency
New England, Region 1
One Congress Street, Suite 1100
Boston, MA 02114-2023

RE: DCR 2006 Annual Reporting under the Notice of Intent to Discharge Stormwater

Dear Mr. Gray:

The Massachusetts Department of Conservation and Recreation (DCR) has completed an annual report for the DCR facilities for which authorization was requested to discharge stormwater under the Notice of Intent (NOI) for coverage under the Municipal Separate Storm Sewer System (MS4) filed with your office in October 2005. This annual report provides a detailed listing by facility type and lists the applicable best management practices (BMPs) for each facility and progress towards meeting the BMPs.

In 2005 DCR began collecting GPS data on catch basins and storm water outfalls from its beaches, parks, parkways and parking lots throughout Massachusetts. DCR and its consultant, ENSR, conducted site visits and assessed the condition of catch basins and outfalls. During that assessment 1,402 outfalls were identified and 2,000 catch basins were assessed and location recorded. Based on the number of catch basins cleaned by DCR and its contractors in 2005, DCR believes that there are at least 5,000 catch basins within its urban parks system and expects to complete mapping these structures in 2006.

The aggressive approach witnessed in 2005 to clean catch basins and sweep DCR parkways and roads in 2005 will continue in 2006. The DCR will use advanced street sweeping technology to address impaired waterways that receive storm water from DCR parkways. Every other month DCR will use vacuum street sweepers in addition to mechanical sweepers to sweep those parkways that discharge storm water to impaired waterways. DCR catch basin cleaning work will include water jetting to clean lateral lines which will clean the pipe and indicate the locations of broken or collapsed drain lines. The locations of these broken pipes will be reported to Planning & Engineering to schedule for repair. In conjunction with these efforts, DCR continues to develop its asset management system, FAMIS, to track maintenance and repair requests. The FAMIS asset database is growing and lists all DCR facilities and

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Kerry Healey
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Stephen R. Pritchard, Secretary
Executive Office of Environmental Affairs

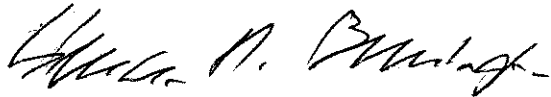
Stephen H. Burrington, Commissioner
Department of Conservation & Recreation

their equipment. It is computer linked to a central reporting structure that establishes a chain of responsibility to record service or repair requests and to chart and schedule a response action.

Since DCR filed a revised Notice of Intent on October 20, 2005, there have been some organizational changes at DCR. A revised organization chart is included to reflect the changes to key personnel.

Again, I would like to thank you for your assistance to date and look forward to continued cooperation to reach the environmental milestones and goals set forth in the DCR's revised, combined NOI. If you have any questions or comments or wish to set up a meeting to discuss, please contact Robert Lowell, Storm Water Manager at 617-626-1340.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen H. Burrington".

Stephen H. Burrington
Commissioner

Attachments: Consolidated Annual Report May 2005-April 2006

Cc: Paul Hogan DEP – CERO
Thomas LaRosa, DCR
Nicholas Vontzalides, DCR



Municipality/Organization: Department of Conservation and Recreation

EPA NPDES Permit Number: pending

MaDEP Transmittal Number:

Annual Report Number

& Reporting Period: No. 3: May 05-April 06

Department of Conservation and Recreation NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Robert Lowell

Title: Storm Water Manager

Telephone #: (617) 626-1340

Email: Robert.Lowell@state.ma.us

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

Printed Name: Stephen Burrington

Title: Commissioner

Date:

5/1/06



Part II. Self-Assessment

The Department of Conservation and Recreation (DCR) has completed the required self-assessment and has determined that we are in compliance with all permit conditions, except as noted in the following tables. DCR has worked hard to implement a comprehensive storm water program this past year with limited fiscal and labor resources. DCR is committing additional funding and labor for 2006 for storm water programs as it further develops and implements the best management practices and programs described within the Storm Water Management Plan.

Part III. Summary of Minimum Control Measures

The Department of Conservation and Recreation owns and operates many different types of facilities and parkways which are covered by the NPDES Phase II General Permit. In order to accurately reflect the programs which have been accomplished both state-wide and for specific facilities, this annual report has been divided into separate tables. Table 1 describes the control measures which are not site specific. Table 2 through Table 7 describes site or facility type specific BMPs which are being implemented at water supply/ reservoirs, state forests, state parks, beaches, construction sites or parkways.

A few of the BMPs included in DCR's Storm Water Management Plan (SWMP) to meet the minimum control measure are for facilities outside of the urbanized area. Therefore, the facilities addressed by these BMPs are not listed in the site specific tables. We continue to include these BMPs in Table 1 to demonstrate the many diverse programs being implemented by the DCR to raise awareness of storm water and water quality issues in the general public. We have noted these BMPs as facilities which are "outside of the urbanized area" in the table below.

Table 1: State-wide Best Management Practices (BMPs)

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-1	DCR Storm Water Web Page	External Affairs/IT Dept. (Tracy Lawrence)	Develop web page and publish storm water related publications (inc. SWMP and NOI), information and links on web page.	<i>Goal Met</i> – Web page on line since October 2005 at http://www.mass.gov/dcr/stewardship/stormwater/index.htm . Last updated January 2006.	Continue to update as necessary. Post copy of SWMP/ NOI when finalized.
1-2	Lower Charles River Middle School Educational Program	Operations (Curt Rudge)	Implement program to educate teachers and kids about storm water's effects on the Lower Charles River and how they can help. Offer program to each middle school once a year.	<i>Goal Not Met</i> - Temporarily inactive due to lack of staff.	Re-staff and provide program once to each middle school in Boston, Wellesley, Dedham, Needham, Newton, Waltham, Watertown, Brookline and Cambridge.
1-5	Interactions with Boat Club Programs	General Counsel (Tom LaRosa)	Add to boat club permits that they must post and monitor "No Wake" zones.	<i>Goal Met</i> - No action required during Permit Year 3.	Will be included in permits issued for 2006 boating season.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-6	Speed Limit Signs	General Counsel (Tom LaRosa)	DCR will post speed limits signs on all bridges along the Lower Charles River.	<i>Goal Met</i> - No action required during Permit Year 3.	DCR will install speed limit signs on Charles River bridge spans visible from river.
1-7	Muddy River Volunteer Clean Up Program	Dir. of Operations/ Planning (Ron Cameron/ Patrice Kish)	Continue to jointly sponsor spring and winter clean ups of the Muddy River with Boston Parks and Recreation Dept. and Town of Brookline.	<i>BMP Deleted</i> – DCR works with Brookline and Boston to maintain the Muddy River but does not participate directly in the Clean Up Program.	<i>BMP Deleted</i>
1-7 (revised)	Mobile Water Quality Education Seminars (<i>statewide</i>)	Operations (Curt Rudge)	Provide storm water/ water quality education educational events at a minimum of nine different locations. These events would be in addition to the facility/ program specific BMPs also listed in this SWMP.	<p><i>Goal Met</i> – DCR offered state-wide Public Education Events including water quality, storm water education (includes forestry practices, healthy ecosystems, water cycle, children's programs) at the following DCR facilities at least once.</p> <ul style="list-style-type: none"> • Blackstone River & Canal Heritage State Park • Holyoke Heritage State Park • Lawrence Heritage State Park • Lynn Heritage State Park • Nickerson State Park • Pilgrim Heritage State Park • Wachusett State Park • Walden Pond State Reservation • Wompatuck State Park 	Provide educational events at a minimum of nine different locations during the year.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-8	Charles River Conservancy Volunteer Clean Up Program	Operations (Pat Flynn)	Continue to partner with Conservancy on Charles River Clean Up Program	<i>Goal Met</i> - DCR continues to assist and coordinate support for this clean up program with CRWA and the Esplanade Association.	Continue assistance and coordination of support for clean up program. Clean up day is scheduled for 4/29/06.
1-9	Charles River Reservation School Program	Operations (Curt Rudge)	Provide 1 storm water/ water quality related educational program each year.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula including water quality.	Provide diverse environmental education curricula including water quality.
1-10	The Boston Harbor Islands Alliance (<i>outside of the urbanized area</i>)	Operations (Curt Rudge)	Provide 1 storm water/ water quality related educational program each year.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula including water quality.	Provide 1 sw/ wq related educational program.
1-11	Camp Nihan	Operations (Curt Rudge)	Provide 1 storm water/ water quality related educational program each year.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula including water quality.	Provide diverse environmental education curricula including water quality.
1-12	George's Island Boston Fort Warren Harbor School Programs (<i>outside of the urbanized area</i>)	Operations (Curt Rudge)	Provide 1 storm water/ water quality related educational program each year.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula including water quality.	Provide 1 sw/ wq related educational program.
1-13	Quabbin Educational Programs (<i>outside of the urbanized area</i>)	Water Supply Protection (Jonathan Yeo)	Continue to provide multi-session watershed related education programs on an annual basis to two schools in the Quabbin Reservoir watershed.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula including water quality.	Provide multi-session program to two schools in Quabbin Reservoir watershed.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-14	Wachusett Educational Programs (<i>outside of the urbanized area</i>)	Water Supply Protection (Jonathan Yeo)	Continue to provide multi-session watershed related education programs on an annual basis to two schools in the Wachusett Reservoir watershed.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula including water quality	Provide multi-session program to two schools in Wachusett Reservoir watershed.
1-16	Project WET	Water Supply Protection (Jonathan Yeo)	Maintain sponsorship of state water education for teachers program.	<i>Goal Met</i> - Program is active and provides diverse environmental education curricula to teachers including water quality and storm water.	Maintain sponsorship.
1-17	"DownStream" Newsletter	Water Supply Protection (Jonathan Yeo)	Continue to develop and disseminate newsletter regarding issues relevant to Wachusett Reservoir/Quabbin Reservoir watersheds twice a year.	<i>Goal Partially Met</i> - DCR continues to publish and circulate this newsletter. Last issue published in November 2005.	Publish issue in May 2006.
1-18	Adopt-a-Waterway (AAW)	Office of Public/Private Partnerships (Allison Geuder)	Begin to participate in this program.	<i>Goal Met</i> – No action required in Permit Year 3. DCR continues to develop its partnership with AAW. Adopt-A-Waterway has reorganized and formed a new business, EcoZone. The DCR will continue discussions with EcoZone to determine if the new company can offer any services of value.	Evaluate if new company (EcoZone) can offer any services of value to DCR.
1-19	Massachusetts Drinking Water Education Partnership (MADWEP)	Recreation (Gary Briere)	Maintain membership.	<i>Goal Met</i> – DCR is an active member of MADWEP.	Maintain membership.

1A. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-20	Silver Lake Demonstration Projects – Parking Lot and Sidewalk Improvement Demonstration Project	Director of Water Resources (Mike Gildesgame)	Public participation related to water quality improvement projects implemented by partnership with EPA and Town of Wilmington.	<p><i>Goal Met -</i></p> <ul style="list-style-type: none"> Letters to 20 – 25 residents of Silver Lake Avenue sent when Notice of Intent was submitted to Conservation Commission Published short article in July–September issue of “Town Topics,” the town’s quarterly newsletter Contacts with local stream team members June 20, 2005 –Letter inviting residents of Silver Lake watershed to public meeting June 27, 2005 – Presentation to Wilmington Board of Selectmen July 6, 2005 –Headwaters tour of problem areas in the watershed, hosted by two local residents for DCR and Ipswich River Watershed Association July 8, 2005 – Developed and printed brochure on Silver Lake project (8,000 copies). Mailed brochure in August 1st water bills (7,000 accounts). Brochure copies available at Town Hall and posted on town DPW web site. 	No additional public participation related projects planned at this time related to the Silver Lake Demonstration Project.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-20 (cont'd)	Silver Lake Demonstration Projects - Parking Lot and Sidewalk Improvement Demonstration Project	Director of Water Resources (Mike Gildesgame)	Public participation related to water quality improvement projects implemented by partnership with EPA and Town of Wilmington.	<ul style="list-style-type: none"> July 18, 2005 – Press release July 26, 2005 – Public meeting at Town Hall, with presentation by Geosyntec Consultants August 3, 2005 – Public hearing, Conservation Commission October 18, 2005 – Presentation on Low-Impact Development and Silver Lake project to Wilmington Planning Board (public meeting) <p>See Appendix B.</p>	
1-21	Wilmington Rain Water Harvesting	Director of Water Resources (Mike Gildesgame)	Public participation related to distribution of rain water systems.	<p><i>Goal Met –</i></p> <ul style="list-style-type: none"> June 15, 2005 – Press release Developed outreach flyer June 27, 2005 – Presentation to Wilmington Board of Selectmen Announcements by e-mail to solicit interest in large systems, to all planning offices in the Ipswich River watershed; nonprofit organizations active in the watershed; and LID Work Group. Notice in the August 31, 2005 <i>Environmental Monitor</i>. Telephone conversations with prospects for large systems from above outreach efforts. 	On-going discussions with prospects for large systems. No additional public participation activities planned.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
1-22	DCR Storm Water Training Workshop	Planning and Engineering (Noel Baratta)	Provide ½ day training program to address storm water management regulation, policies and procedures relevant to DCR staff.	<p>Training provided on following dates:</p> <ul style="list-style-type: none"> December 13, 2005 – Blue Hills facility - 6 staff members from Engineering and Planning attended January 12, 2006 – Wachusett Reservoir – 7 staff members from state and urban parks attended January 13, 2006 – Breakhart Reservation - 30 staff members from state and urban parks attended <p>The session included an overview of applicable storm water regulations, descriptions of the DCR's stormwater management strategies, its NPDES Storm Water Management Plan, discussion of DCR's activities to manage the design, construction, and operation of its stormwater management facilities (i.e. detention ponds, catch basins, etc), and how these new regulations/ program will impact the DCR staff.</p>	No action planned. Storm Water Handbook Training will provide training to similar group of staff members in Permit Year 4.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
2-1	Formalize Partnerships with CLF and CRWA	General Counsel (Tom LaRosa)	Continue to work with CLF and CRWA and abide by Memo of Understanding (MOU)	<i>Goal Met</i> - Partnership finalized in DCR/CLF/CRWA MOU executed August 2005 (see Appendix A). DCR provides CLF/ CRWA with a semi-annual report summarizing the actions taken to meet the criteria outlined in the MOU. Semi-annual meetings are held to discuss the progress. DCR has provided CLF/CRWA with a draft copy of the catch basin cleaning and street sweeping policies.	Continue to provide semi-annual reports and attend regularly scheduled meetings with CLF/ CRWA to review compliance with MOU.
2-2	UMass/DCR Program to monitor WQ in target areas of Wachusett Reservoir (<i>outside of the urbanized area</i>)	Water Supply Protection (Jonathan Yeo)	Continue program with UMass.	<i>Goal Met</i> - Program is ongoing. Current focus is development of hydro-dynamic model of Stillwater Basin section of reservoir.	Program will develop construction site impact study for Warren Tannery Brook and stormwater and pollutant migration model/ hydrodynamic analysis of Wachusett Reservoir.
2-3	Public NPDES Meetings to Discuss Annual Report	Planning & Engineering (Karst Hoozeboom)	Hold one meeting at three locations each year for internal staff, interested parties and public. Track and record comments received.	<i>Goal Met</i> - Not applicable at this time.	Public meetings will be held as indicated to discuss Permit Year 3 Annual Report.
2-4	Partnership and Friends Database	External Affairs (Tracy Lawrence)	Send an annual letter regarding storm water/ NPDES issues to the watershed advocacy groups included in their Partnership and Friends database.	<i>Goal Partially Met</i> - Database has over 300 contacts. An e-mail letter informing members of new storm water web site references and information will be sent to all members in Spring 2006.	E-mail letter to all members.



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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
2-5	Storm Water Related Concerns/ Feedback Reported on DCR Web Site	External Affairs (Tracy Lawrence)	Continue to maintain staffing to forward concerns/ feedback to appropriate department and track response to concerns submitted by the public via DCR's web site.	<i>Goal Met</i> - Web site is active. DCR Commissioner has implemented concern/feedback letter tracking and response system.	Continue program.
2-6	DCR Stewardship Council	External Affairs (Tracy Lawrence)	Continue to participate.	<i>Goal Met</i> - DCR attends monthly and is an active participant.	Continue participation.
2-7	Massachusetts Water Resource Commission (MWRC)	Water Supply Protection (Jonathan Yeo)	Continue to be involved in program and provide technical and staff support to MWRC.	<i>Goal Met</i> - DCR attends monthly and is an active participant. They recently reviewed draft proposed changes to DEP storm water regulations.	Continue participation.
2-8	Lakes and Ponds Program	Water Supply Protection (Jonathan Yeo)	Continue to sponsor program.	<i>Goal Met</i> - Lakes and Ponds Program now has its own web link on DCR's web site. DCR continues to sponsor this program. Examples of LID installations and demonstration projects for the Ipswich River watershed are available through http://www.mass.gov/dcr/waterSupply/ipswichRiver/index.htm	Continue sponsorship.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./ Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
3-2	Drainage Inventory Specification	Chief Engineer (Noel Baratta/ENSR)	DCR will develop and implement a Drainage Inventory Specification which will require submission of drainage infrastructure information from construction and redevelopment projects to add to the infrastructure database.	<i>Goal Not Met</i> - Drainage specifications will be included in revised contract language and standard contract documents by Summer 2006.	All new construction project let after Fall 2006 will include the Drainage Inventory Specification.
3-3	Illicit Drainage Connection Policy	General Counsel (Tom LaRosa)	DCR is preparing a policy prohibiting illicit discharges to the DCR storm water system. The Policy will be finalized and issued during Fall 2006. Enforcement will be through the AG's office if necessary.	<i>Goal Not Met</i> - DCR is evaluating drainage connection policies and scenarios to examine which policy will best serve DCR and protect its properties.	Prepare draft policy, review and finalize by end of permit year. Begin implementing policy guidance during drainage infrastructure assessment which will begin in Fall 2006
3-6	Illicit Discharge Flyers	External Affairs (Tracy Lawrence)	Discuss with MWRA sending flyers through water/ sewer mailing to inform public of hazards associated with illicit discharges and improper waste disposal.	<i>Goal Partially Met</i> - ENSR is developing suggested content for these brochures.	Develop draft of brochures. Finalize by Fall 2006. Explore mailing with MWRA.
3-7	Drainage Tie-In Policy	General Counsel/ Chief Engineer (Tom LaRosa/ Noel Baratta)	Develop a SOP regarding drainage tie-ins from private entities to DCR's MS4.	<i>Goal Met</i> – No action required in Permit Year 3. DCR is evaluating drainage tie-in policies and scenarios to examine which policy will best serve DCR and protect its properties.	Complete policy by end of permit year.

BMP ID #	BMP Description	Responsible Dept./ Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
3-8	Develop Storm Water Control Agreements with Other MS4s	General Counsel (Tom LaRosa)	DCR will implement a program to work cooperatively with operators of interconnected MS4s in the instance where storm water discharges impact either system. DCR will develop control agreements with the discharging municipality.	<i>Goal Not Met</i> - For municipalities that share a property boundary with DCR, DCR is examining which approach will be most effective to ensure that storm water discharges from DCR neighbors will be in compliance with storm water control requirements.	Develop program by end of permit year.

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
4-2	E&S/ NPDES Contract Bid Item and Special Provisions	Director of Planning & Engineering (Karst Hoogeboom)	Prepare contract bid item and special provisions. Include in all new contracts which disturb more than one acre. Bid item will include erosion control specifications.	<i>Goal Partially Met</i> - Erosion and sedimentation control specifications will be included in revised contract language and standard contract documents by Spring 2006.	All new construction project let after Fall 2006 will include the Erosion and Sediment Control Specification.
4-3	Construction SWPPP Template	Director of Planning & Engineering (Karst Hoogeboom)	DCR will develop a SWPPP Template for use by Contractors on DCR projects. Template will be placed on DCR website for download by contractors.	<i>Goal Partially Met</i> - Template is drafted and under final review.	Finalize template and upload to DCR website.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
4-5	On-going Construction Projects Web Page	External Affairs/ IT Dept. (Tracy Lawrence)	DCR will maintain the construction related web page that includes information regarding on-going DCR construction projects.	<i>Goal Met</i> - DCR construction sites that exceed 1 acre disturbance will be posted on the DCR web site in Spring 2006.	Maintain website and post on-going construction sites which are covered by NPDES Construction General Permit.
4-6	Annual Erosion Prevention/ Sediment Control Training	Dir. Planning & Engineering (Karst Hoogeboom)	Provide annual training to DCR construction management staff. Report number of attendees, topics covered and dates of training in annual report.	<i>Goal Met</i> - Approximately 50 DCR engineering, planning and operations staff received one-half day storm water training in December-January.	Provide annual training.
4-7	Add VMP Requirements to Restoration Specs	Dir. of Planning (Patrice Kish)	DCR will add VMP requirements to vegetation restoration specifications.	<i>Goal Partially Met</i> - VMP specifications will be included in revised contract language for restoration requirements and standard contract documents by Spring 2006.	All new construction project let after Fall 2006 will include the revised Restoration Specs.

5. Post-Construction Stormwater Management in New Development and Redevelopment

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
5-1	Compliance with MA DEP Stormwater Management Policy	Dir. Planning & Engineering (Karst Hoogeboom)	Apply Stormwater Management Policy Guidelines to all development/ redevelopment projects.	Participated in DEP Storm Water Advisory Council and planning committees and will follow DEP storm water management policy once finalized by DEP. All new/ redevelopment projects were designed to incorporate the revised stormwater best management practices.	The revised contract specifications and erosion and sediment control standards are scheduled to be released during Summer 2006 and will be included in all new construction contracts beginning Fall 2006.
5-2	DCR Storm Water Handbook	Dir. Planning & Engineering (Karst Hoogeboom)	Develop Handbook and issue department-wide and to Contractors. New projects will be designed in accordance with the Handbook.	<i>Goal Met</i> - Storm Water Handbook for employees has been drafted and circulated to DCR H/R and Parks Engineering.	Complete Handbook by end of Summer 2006.
5-3	Storm Water Handbook Training	Director of Human Resources (Johanna Zabriskie)	Provide 2 seminars within 6 months of issuing handbook to train internal personnel and consultants. Provide annual seminars thereafter. Record # of attendees and dates of training.	<i>Goal Met</i> – No action required in Permit Year 3.	Provide two seminars to train internal personnel and consultants on Handbook.
5-4	BMP Long-Term Operation and Maintenance	Operations / Planning and Engineering (Ron Cameron / Karst Hoogeboom)	DCR has committed 1.9 million dollars annually to provide long-term maintenance of BMPs on the schedule indicated in the Maintenance Activity Schedule of the SWMP.	DCR is preparing its 5-year capital plan to fund commitment to long-term maintenance. Long-term operation and maintenance was accomplished using contracts established for pavement resurfacing and deferred maintenance.	Capital planning for long-term operation and maintenance of BMPs is being evaluated by Planning and Engineering and State Parks and Urban Parks Operations.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
5-5	Silver Lake Demonstration Projects – Parking Lot and Sidewalk Redevelopment	Director of Planning (Patrice Kish)	Water quality improvement projects implemented by partnership with EPA and Town of Wilmington.	<p><i>Goal Met -</i></p> <p>Design: Design of Parking Lot and Sidewalk Redevelopment (which incorporated LID Techniques) was completed June 7, 2005. Filed NOI with Conservation Commission and received Order of Conditions August 3, 2005. Received Waiver of Site Plan Review from Planning Board. Construction contractors pre-qualified. Construction began January 2006.</p> <p>Sampling and Monitoring: USGS installed 7 observation wells in early June at parking lot site. First baseline wq samples collected July 6, 2005. Four sampling events have occurred since. Post-installation monitoring at parking lot to begin in January 2006 and on Silver Lake Ave. in March 2006.</p>	<p>Complete construction.</p> <p>Continue post-installation monitoring.</p>



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BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
5-6	Wilmington Rain Water Harvesting	Div. of Water Supply Protection (Jonathon Yeo)	Complete distribution of rain water systems.	<i>Goal Met</i> - Developed criteria for screening potential participants. Solicited participants. Geocoded addresses of interested participants and performed neighborhood survey to determine eligibility. Obtained list of high water users and cross-referenced list with list of those who expressed interest. Conducted lottery (July 22) and selected 35 recipients of small- and medium-sized systems. Conducted site visits to confirm eligibility. Ordered tanks and equipment (Sept. 9). Began installations October 18. Conducted second and third lottery (Oct. 24) to select participants to replace those who dropped out.	Installations of small and medium systems to be completed before Winter 2006. Determine sites for the large-capacity systems (underground storage of 10-20,000 gallons). Begin data collection in Spring 2006 and continue through the irrigation seasons of 2007 and 2008.
5-7	Walden Pond Stormwater Improvements (<i>outside of urbanized area</i>)	Director of Planning (Patrice Kish)	Complete design of storm water improvements and install.	Project designed and installed.	Bank stabilization and beach replenishment proposed.

6. Pollution Prevention and Good Housekeeping

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
6-1	Vehicle Washing Policy	Director of Operations (Ron Cameron)	Maintain practice of washing vehicles at off-site locations into state-wide written policy and implement.	<i>Goal Met</i> - Policy is written and distributed. DCR is pursuing a state-wide master service agreement to provide these services off-site. DCR is still working to identify regional commercial vehicle washing facilities.	Identify commercial vehicle washing facility and implement policy by end of Winter 06-07.
6-2	Floor Drain Policy	Planning and Engineering (Karst Hoogeboom)	Maintain plan for floor drain use and servicing.	<i>Goal Met</i> - Plan is maintained, staffed and funded under Clean State Initiative.	Maintain plan.
6-3	CB Cleaning Policy	Chief Engineer / Dir. of Operations (Noel Baratta/ Ron Cameron)	DCR will develop a written plan for regular catch basin cleaning to be implemented in DCR's fiscal year 2006 and thereafter.	<i>Goal Partially Met</i> - 2006 Plan has been drafted and circulated to CLF, CRWA and DCR staff for comments.	Finalize plan and implement during 2006.
6-4	CB Inspection/ Repair Policy	Chief Engineer / Director of Operations (Noel Baratta/ Ron Cameron)	DCR will develop an agency wide policy for implementing a schedule for inspecting catch basins and prioritizing repairs of catch basins and implement.	<i>Goal Partially Met</i> - 2006 Plan has been drafted and circulated to DCR staff. Priority catch basins identified during 2005 are included in repair contract for 2006-2007.	Finalize plan and implement during 2006.
6-5	Street Sweeping Policy	Dir. of Operations (Ron Cameron)	Create and implement agency-wide policy.	<i>Goal Partially Met</i> - 2006 Plan has been drafted and circulated to CLF, CRWA and DCR staff for comments.	Finalize plan and implement during 2006.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
6-6	IPM Policy	Water Supply Protection (Jonathan Yeo)	Create and implement agency-wide policy.	<i>Goal Partially Met</i> - Water Supply Protection is evaluating IPM for vegetation aquatic control. DCR has recently hired staff to assess use of IPM for other applications.	Create draft plan for internal review. Finalize by end of Permit Year 4.
6-7	VMP Training	Director of Planning (Patrice Kish)	Provide training on DCR Vegetation Management Plan (VMP) to internal maintenance staff once every two years.	<i>Goal Met</i> – Training provided and included review of VMPs prior to seasonal brush cutting. DCR follows VMPs of municipalities to the extent possible.	Provide training if required for seasonal workers without prior experience.
6-9	EMS Team	Director of Planning & Engineering (Karst Hoogeboom)	Continue to provide first response for emergency management situations such as spills and/ or coordinate with Mass. State Police, as appropriate.	<i>Goal Met</i> - DCR coordinates responses with Mass State Police and DEP as necessary.	Continue to coordinate responses.
6-10	Waste Disposal	Planning & Engineering / Operations (Karst Hoogeboom/ Ron Cameron)	DCR will continue to properly dispose of waste.	<i>Goal Met</i> - DCR has budgeted for disposal of catch basin and street sweeping wastes.	Continue to properly dispose of waste and include in budgets.
6-11	Beneficial Use Determination (BUD)	Planning & Engineering (Karst Hoogeboom)	DCR will work to determine a beneficial use for catch basin residuals.	<i>Goal Met</i> – No action required in Permit Year 3.	DCR will pursue BUD for catch basin residuals cleaned from Stormceptor systems installed along beach parkways where sandy material retrieved may have beneficial uses.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 3	Planned Activities – Permit Year 4
7-1	Wetland Protection Act Compliance	Dir. of Operations / Dir. of Planning & Engineering (Ron Cameron / Karst Hooeboom)	Continue compliance with WPA.	<i>Goal Met</i> - Wetlands Protection Act is actively enforced at all DCR properties including those not located within urbanized areas. DCR has staff specifically dedicated to WPA compliance in Wachusett and Quabbin Reservoir watersheds.	Continue compliance.
7-2	401 Water Quality Certification	Dir. of Operations / Dir. of Planning & Engineering (Ron Cameron / Karst Hooeboom)	Continue compliance with 401 WQ Certification.	<i>Goal Met</i> - DCR requested no 401 WQ certifications during past six months.	Continue compliance.
7-4	Cultural Resources Review	Chief Planner (Patrice Kish)	Continue to review potential impact to historic properties during conceptual design stage.	<i>Goal Met</i> - DCR reviews all projects for potential impact to historic properties during design phase.	Continue reviews.
7-7	Chicopee Basin, French Basin, Mill River Basin, Northern Blackstone and Connecticut River TMDLs	Water Supply Protection/ Chief Forester (Johnathon Yeo/ Jim Dimaio)	Provide summary table of timber harvesting activities, date forest cutting plan was approved and proposed BMPs in each annual report.	<i>Goal Not Met</i>	Provide summary report in annual report.
7-8	Connecticut Basin TMDL - Train Conservation Commission on Timber Harvest BMPs	Chief Forester (Jim Dimaio)	Present short seminar for each Conservation Commission.	<i>Goal Not Met</i>	Perform presentations during Spring 2006.

Table 2: Parkway Best Management Practices

		Permit Year 3 Activity																
		BMP #	1-2	1-5	1-6	1-7	1-8	1-9	2-1	2-5	3-1	3-4	3-5	6-13	6-14	6-15	6-16	
		BMP	Lower Charles River Middle School Educational Program	Boat Club Programs	Boat Traffic Speed Limit Signs	Muddy River Clean Up Program	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Abide by MOU with CLF and CRWA	Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment	Wet Weather Review and Repairs	Implement Parkways Short Term Measures	
Facility	Town	Measurable Goal	Offer to each middle school annually.	Add requirement to post and monitor "No Wake" zones to permits.	Post speed limit signs on all Lower Charles River bridges.	Jointly sponsor spring and winter cleanups.	Continue to partner with Conservancy	Provide 1 sw/ wq educational program/ yr.		Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Fenway, Riverway and Jamaica Way - Assess curbing and pavement condition. Determine measures necessary to reduce erosion.	Blue Hills Parkway - Pine Tree Brook area - Address direct outfall of sw to brook
Agassiz Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
			Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Alewife Brook- Concord Ave Rotary	Cambridge																	
Alewife Brook Parkway	Cambridge, Somerville		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Arborway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Arlington Road	Brookline		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Arlington Street	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Arsenal Street	Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Austin Street	Boston, Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Babe Ruth Park Drive	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Beach Street	Medford		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Beacon Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Bellevue Hill Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Berkeley Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Birmingham Parkway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Blue Hill River Road	Canton, Milton									Met	Met	In Prog		Not Met	In Prog	Not Met		
Blue Hill Street	Canton									Met	Met	In Prog		Not Met	In Prog	Not Met		
Blue Hills Parkway	Milton									Met	Met	In Prog		Not Met	In Prog	Not Met		In Prog
Boston University Bridge	Boston, Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Boulevard Road	Wellesley		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Boundary Road	Malden									Met	Met	In Prog		Not Met	In Prog	Not Met		
Boylston Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Broad Sound Avenue	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Broadway	Chelsea, Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Broadway	Everett									Met	Met	In Prog		Not Met	In Prog	Not Met		
Brook Road	Milton									Met	Met	In Prog		Not Met	In Prog	Not Met		
Brookline Avenue	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Brookline Street	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Brooks Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Brush Hill Road	Milton									Met	Met	In Prog		Not Met	In Prog	Not Met		
Bunker Hill Lane	Quincy									Met	Met	In Prog		Not Met	In Prog	Not Met		
Cambridge Parkway	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Cambridge Parkway Connector	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Cambridge Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Carroll Parkway	Lynn									Met	Met	In Prog		Not Met	In Prog	Not Met		
Casassa Overpass	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Centre Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charles Greenough Boulevard	Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charles River Dam Road	Boston, Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charles River Road	Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charles Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charlesgate East	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charlesgate Overpass	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charlesgate West	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Charlestown Avenue	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Chestnut Hill Driveway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Chestnut Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
	Braintree, Milton, Quincy									Met	Met	In Prog		Not Met	In Prog	Not Met		
Chickatawbut Road	Quincy																	
Columbia Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Commandant's Way	Chelsea									Met	Met	In Prog		Not Met	In Prog	Not Met		
Commercial Avenue	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Commonwealth Avenue	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Concord Avenue	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Connector Mystic Valley Parkway	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Connector To Eliot Bridge	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Constitution Beach Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Crowell State Forest Road	Sandwich									Met	Met	In Prog		Not Met	In Prog	Not Met		
Dam Road	Southborough									Met	Met	In Prog		Not Met	In Prog	Not Met		
David G Mugar Way	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		

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		BMP	Lower Charles River Middle School Educational Program	Boat Club Programs	Boat Traffic Speed Limit Signs	Muddy River Clean Up Program	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Abide by MOU with CLF and CRWA	Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment	Wet Weather Review and Repairs	Implement Parkways Short Term Measures	
Facility	Town	Measurable Goal	Offer to each middle school annually.	Add requirement to post and monitor "No Wake" zones to permits.	Post speed limit signs on all Lower Charles River bridges.	Jointly sponsor spring and winter cleanups.	Continue to partner with Conservancy	Provide 1 sw/ wq educational program/ yr.		Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Fenway, Riverway and Jamaica Way - Assess curbing and pavement condition. Determine measures necessary to reduce erosion.	Blue Hills Parkway - Pine Tree Brook area - Address direct outfall of sw to brook
Day Boulevard Extension	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Dedham Boulevard	Boston, Dedham		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Deer Park Road	Brewster									Met	Met	In Prog		Not Met	In Prog	Not Met		
Earhart Dam Road	Everett									Met	Met	In Prog		Not Met	In Prog	Not Met		
East Border Road	Malden, Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
East Broadway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Eastern Avenue	Lynn									Met	Met	In Prog		Not Met	In Prog	Not Met		
Edwin H. Land Boulevard	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Eliot Bridge	Watertown, Brighton		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Elm Road	Saugus									Met	Met	In Prog		Not Met	In Prog	Not Met		
Elm Street	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Elm Street	Saugus, Wakefield									Met	Met	In Prog		Not Met	In Prog	Not Met		
Embankment Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Enneking Parkway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Enneking Parkway Branch	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Everett Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Fellsway	Malden, Medford, Somerville, Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Fellsway East	Malden, Melrose, Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Fellsway West	Malden, Medford, Somerville, Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Fenway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met	In Prog	
Fenway Connector To Park Drive	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met	In Prog	
First Street	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Forest Grove Road	Waltham		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Forest Street	Saugus									Met	Met	In Prog		Not Met	In Prog	Not Met		
Fresh Pond Parkway	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Furnace Brook Parkway	Quincy									Met	Met	In Prog		Not Met	In Prog	Not Met		
Gallivan Boulevard	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Green Street	Canton, Milton									Met	Met	In Prog		Not Met	In Prog	Not Met		
Greenough Boulevard	Cambridge, Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Grove Street	Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Grove Street Extension	Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Hammond Pond Parkway	Brookline, Newton		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Harvard Avenue	Arlington, Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Hawthorn Street	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Hayden Street	Quincy									Met	Met	In Prog		Not Met	In Prog	Not Met		
Hemlock Road	Saugus, Wakefield									Met	Met	In Prog		Not Met	In Prog	Not Met		
High Street	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Highland Avenue	Malden, Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Hillcrest Parkway	Winchester									Met	Met	In Prog		Not Met	In Prog	Not Met		
Hillside Street	Canton, Milton									Met	Met	In Prog		Not Met	In Prog	Not Met		
Hull Shore Drive	Hull									Met	Met	In Prog		Not Met	In Prog	Not Met		
Humphrey Street	Swampscott									Met	Met	In Prog		Not Met	In Prog	Not Met		
Hyde Park Avenue	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Jamaicaway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met	In Prog	
Jamaicaway Frontage Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met	In Prog	
JFK-Umass Station Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
John F Kennedy Street	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Jordan Marsh Service Center Area (served by Cmdr. Shea Blvd)	Quincy									Met	Met	In Prog		Not Met	In Prog	Not Met		
Lagrange Street Ext.	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Longfellow Bridge	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Lynn Fells Parkway	Melrose, Saugus									Met	Met	In Prog		Not Met	In Prog	Not Met		
Lynn Shore Drive	Lynn, Nahant, Swampscott									Met	Met	In Prog		Not Met	In Prog	Not Met		
Lynnway	Lynn, Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Lynnway Underpass - Rt 1A Sb To Lynnway	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		

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		Permit Year 3 Activity																
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Main Street	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Main Street	Everett									Met	Met	In Prog		Not Met	In Prog	Not Met		
Massachusetts Avenue	Boston, Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Mcgrath O'Brien Highway	Somerville									Met	Met	In Prog		Not Met	In Prog	Not Met		
Medford Street	Arlington									Met	Met	In Prog		Not Met	In Prog	Not Met		
Medford Veterans Memorial Highway	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Memorial Drive	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Memorial Drive Underpass	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Metropolitan District Commission Road	Southborough									Met	Met	In Prog		Not Met	In Prog	Not Met		
Metropolitan Road	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Middle Street	Randolph									Met	Met	In Prog		Not Met	In Prog	Not Met		
Middlesex Avenue	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Middleton Street	North Andover									Met	Met	In Prog		Not Met	In Prog	Not Met		
Milton Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Monsanto Road	Everett									Met	Met	In Prog		Not Met	In Prog	Not Met		
Monsignor Casey Highway	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Monsignor Obrien Highway	Cambridge, Somerville		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Morrissey Service Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Morton Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Mount Auburn Street	Cambridge		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Mount Vernon Street	Dorchester									Met	Met	In Prog		Not Met	In Prog	Not Met		
Mystic River Road	Medford									Met	Met	In Prog		Not Met	In Prog	Not Met		
Mystic Valley Parkway	Arlington, Medford, Somerville, Winchester									Met	Met	In Prog		Not Met	In Prog	Not Met		
Mystic Valley Parkway Section V	Arlington									Met	Met	In Prog		Not Met	In Prog	Not Met		
Nahant Beach Boulevard	Nahant									Met	Met	In Prog		Not Met	In Prog	Not Met		
Nantasket Avenue	Hull									Met	Met	In Prog		Not Met	In Prog	Not Met		
Nash Hill Reservoir Road	Ludlow									Met	Met	In Prog		Not Met	In Prog	Not Met		
Neponset Avenue	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Neponset Valley Parkway	Boston, Milton		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
New South Street	Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Noble Street	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Nonantum Road	Boston, Newton, Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Nonantum Road Branch	Newton		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
North Beacon Street	Boston, Watertown		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
North Border Road	Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
North Harvard Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
North Shore Road	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Norumbega Road	Weston									Met	Met	In Prog		Not Met	In Prog	Not Met		
Oak Island Street	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Ocean Avenue	Revere									Met	Met	In Prog		Not Met	In Prog	Not Met		
Ocean Street	Lynn, Swampscott									Met	Met	In Prog		Not Met	In Prog	Not Met		
Old Colony Avenue	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Park Drive	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Park Road	Weston									Met	Met	In Prog		Not Met	In Prog	Not Met		
Park Street	Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Parkman Drive	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Pelton Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Perkins Street	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Pine Tops Road	Saugus									Met	Met	In Prog		Not Met	In Prog	Not Met		
Pond Street	Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Quincy Shore Drive	Quincy									Met	Met	In Prog		Not Met	In Prog	Not Met		
Quinobequin Road	Newton		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Ravine Road	Melrose, Stoneham									Met	Met	In Prog		Not Met	In Prog	Not Met		
Recreation Road	Weston									Met	Met	In Prog		Not Met	In Prog	Not Met		
Reservation Road	Boston		Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Reservoir Street	Winchester									Met	Met	In Prog		Not Met	In Prog	Not Met		

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		Permit Year 3 Activity															
		BMP #	1-2	1-5	1-6	1-7	1-8	1-9	2-1	2-5	3-1	3-4	3-5	6-13	6-14	6-15	6-16
		BMP	Lower Charles River Middle School Educational Program	Boat Club Programs	Boat Traffic Speed Limit Signs	Muddy River Clean Up Program	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Abide by MOU with CLF and CRWA	Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment	Wet Weather Review and Repairs	Implement Parkways Short Term Measures
Facility	Town	Measurable Goal	Offer to each middle school annually.	Add requirement to post and monitor "No Wake" zones to permits.	Post speed limit signs on all Lower Charles River bridges.	Jointly sponsor spring and winter cleanups.	Continue to partner with Conservancy	Provide 1 sw/ wq educational program/ yr.	Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Fenway, Riverway and Jamaica Way - Assess curbing and pavement condition. Determine measures necessary to reduce erosion.	Blue Hills Parkway - Pine Tree Brook area - Address direct outfall of sw to brook
Revere Beach Boulevard	Revere								Met	Met	In Prog		Not Met	In Prog	Not Met		
Revere Beach Parkway	Chelsea, Everett, Medford, Revere								Met	Met	In Prog		Not Met	In Prog	Not Met		
Revere Street	Revere								Met	Met	In Prog		Not Met	In Prog	Not Met		
River Street	Boston, Cambridge	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Riverdale Road	Upton								Met	Met	In Prog		Not Met	In Prog	Not Met		
Riverway	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met	In Prog	
Riverway Frontage Road	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met	In Prog	
Rocky Woods Reservation Road	Medfield								Met	Met	In Prog		Not Met	In Prog	Not Met		
Saint Thomas Moore Road	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Santilli Circle Connector	Everett								Met	Met	In Prog		Not Met	In Prog	Not Met		
Sawmill Lane	Dedham	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Shirley Avenue	Revere								Met	Met	In Prog		Not Met	In Prog	Not Met		
Shore Drive	Somerville								Met	Met	In Prog		Not Met	In Prog	Not Met		
Shore Road	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Smith Field Road	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Soldiers Field Road	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Soldiers Field Road Extension	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Soldiers Field Service Road Eastbound	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
South Border Road	Medford, Winchester								Met	Met	In Prog		Not Met	In Prog	Not Met		
South Street	Stoneham								Met	Met	In Prog		Not Met	In Prog	Not Met		
State Beach Road	Salisbury								Met	Met	In Prog		Not Met	In Prog	Not Met		
State Park Road	Ashland								Met	Met	In Prog		Not Met	In Prog	Not Met		
Storrow Drive	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Sumner Street	Milton								Met	Met	In Prog		Not Met	In Prog	Not Met		
Terminal Road	Cambridge	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Truman Highway	Boston, Milton	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Truman Parkway	Boston, Milton	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Turtle Pond Parkway	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Turtle Pond Parkway Branch	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Unquity Road	Milton								Met	Met	In Prog		Not Met	In Prog	Not Met		
Upper Arborway	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Veterans Of Foreign Wars Parkway	Boston, Brookline	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Wave Avenue	Revere								Met	Met	In Prog		Not Met	In Prog	Not Met		
West Border Road	Malden								Met	Met	In Prog		Not Met	In Prog	Not Met		
West Boundary Road	Boston	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
West Roxbury Parkway	Boston, Brookline	Not Met							Met	Met	In Prog		Not Met	In Prog	Not Met		
Wompatuck Road	Quincy								Met	Met	In Prog		Not Met	In Prog	Not Met		
Permit Year 3 Notes			Temporarily inactive due to lack of staff.	No action required during Permit Year 3.	No action required during Permit Year 3.		DCR continues to assist and coordinate support for this clean up program.	Program is active and provides diverse environmental education curricula including water quality.		Concern/ feedback tracking and response system implemented.	Outfalls at each facility have been mapped.	Working with consultant to develop a GIS Drainage System Inventory scope of work.	No action planned for Permit Year 3 according to SWMP schedule.	Prepared scope of work for consultant to perform work in Permit Year 4.	Collected GIS-based data (inc. condition and locations) of approx. 1,700 catch basins. 73 catch basins identified in need of repair. Included in 2006 catch basin repair contract.	Prepared scope of work for consultant to perform work in Permit Year 4.	

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Table 2: Parkway Best Management Practices

Permit Year 3 Activity																							
BMP #		6-17		6-18										7-3		7-5		7-6		7-9		7-10	
BMP		Maintenance Tracking System		Maintenance Activity Schedule										Federally Listed Endangered Species Habitat		Historic Property Impact		Impaired Waterbodies		Permit Year TMDL Summary		Priority Resource Areas	
Facility	Town	Measurable Goal	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.					
Agassiz Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
			In Prog	Met										Met	In Prog	Met	Met	In Prog					
Alewife Brook- Concord Ave Rotary	Cambridge																						
Alewife Brook Parkway	Cambridge, Somerville		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Arborway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Arlington Road	Brookline		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Arlington Street	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Arsenal Street	Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Austin Street	Boston, Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Babe Ruth Park Drive	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Beach Street	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Beacon Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Bellevue Hill Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Berkeley Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Birmingham Parkway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Blue Hill River Road	Canton, Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Blue Hill Street	Canton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Blue Hills Parkway	Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Boston University Bridge	Boston, Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Boulevard Road	Wellesley		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Boundary Road	Malden		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Boylston Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Broad Sound Avenue	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Broadway	Chelsea, Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Broadway	Everett		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Brook Road	Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Brookline Avenue	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Brookline Street	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Brooks Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Brush Hill Road	Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Bunker Hill Lane	Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Cambridge Parkway	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Cambridge Parkway Connector	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Cambridge Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Carroll Parkway	Lynn		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Casassa Overpass	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Centre Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charles Greenough Boulevard	Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charles River Dam Road	Boston, Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charles River Road	Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charles Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charlesgate East	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charlesgate Overpass	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charlesgate West	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Charlestown Avenue	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Chestnut Hill Driveway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Chestnut Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
	Braintree, Milton, Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Chickatawbut Road	Quincy																						
Columbia Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Commandant's Way	Chelsea		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Commercial Avenue	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Commonwealth Avenue	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Concord Avenue	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Connector Mystic Valley Parkway	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Connector To Eliot Bridge	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Constitution Beach Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Crowell State Forest Road	Sandwich		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Dam Road	Southborough		In Prog	Met										Met	In Prog	Met	Met	In Prog					
David G Mugar Way	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					

Table 2: Parkway Best Management Practices

Permit Year 3 Activity																							
		BMP #	6-17		6-18									7-3		7-5		7-6		7-9		7-10	
		BMP	Maintenance Tracking System		Maintenance Activity Schedule									Federally Listed Endangered Species Habitat		Historic Property Impact		Impaired Waterbodies		Permit Year TMDL Summary		Priority Resource Areas	
Facility	Town	Measurable Goal	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.					
Day Boulevard Extension	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Dedham Boulevard	Boston, Dedham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Deer Park Road	Brewster		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Earhart Dam Road	Everett		In Prog	Met										Met	In Prog	Met	Met	In Prog					
East Border Road	Malden, Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
East Broadway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Eastern Avenue	Lynn		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Edwin H. Land Boulevard	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Eliot Bridge	Watertown, Brighton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Elm Road	Saugus		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Elm Street	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Elm Street	Saugus, Wakefield		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Embankment Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Enneking Parkway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Enneking Parkway Branch	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Everett Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
	Malden, Medford, Somerville, Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Fellsway																							
Fellsway East	Malden, Melrose, Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
	Malden, Medford, Somerville, Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Fellsway West																							
Fenway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Fenway Connector To Park Drive	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
First Street	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Forest Grove Road	Waltham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Forest Street	Saugus		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Fresh Pond Parkway	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Furnace Brook Parkway	Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Gallivan Boulevard	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Green Street	Canton, Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Greenough Boulevard	Cambridge, Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Grove Street	Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Grove Street Extension	Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hammond Pond Parkway	Brookline, Newton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Harvard Avenue	Arlington, Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hawthorn Street	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hayden Street	Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hemlock Road	Saugus, Wakefield		In Prog	Met										Met	In Prog	Met	Met	In Prog					
High Street	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Highland Avenue	Malden, Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hillcrest Parkway	Winchester		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hillside Street	Canton, Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hull Shore Drive	Hull		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Humphrey Street	Swampscott		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Hyde Park Avenue	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Jamaicaway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Jamaicaway Frontage Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
JFK-Umass Station Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
John F Kennedy Street	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Jordan Marsh Service Center Area (served by Cmdr. Shea Blvd)	Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Lagrange Street Ext.	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Longfellow Bridge	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Lynn Fells Parkway	Melrose, Saugus		In Prog	Met										Met	In Prog	Met	Met	In Prog					
	Lynn, Nahant, Swampscott		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Lynn Shore Drive																							
Lynnway	Lynn, Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Lynnway Underpass - Rt 1A Sb To Lynnway	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					

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Permit Year 3 Activity																							
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Main Street	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Main Street	Everett		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Massachusetts Avenue	Boston, Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Mcgrath O'Brien Highway	Somerville		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Medford Street	Arlington		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Medford Veterans Memorial Highway	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Memorial Drive	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Memorial Drive Underpass	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Metropolitan District Commission Road	Southborough		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Metropolitan Road	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Middle Street	Randolph		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Middlesex Avenue	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Middleton Street	North Andover		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Milton Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Monsanto Road	Everett		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Monsignor Casey Highway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Monsignor Obrien Highway	Cambridge, Somerville		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Morrissey Service Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Morton Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Mount Auburn Street	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Mount Vernon Street	Dorchester		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Mystic River Road	Medford		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Mystic Valley Parkway	Arlington, Medford, Somerville, Winchester		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Mystic Valley Parkway Section V	Arlington		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Nahant Beach Boulevard	Nahant		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Nantasket Avenue	Hull		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Nash Hill Reservoir Road	Ludlow		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Neponset Avenue	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Neponset Valley Parkway	Boston, Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
New South Street	Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Noble Street	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Nonantum Road	Boston, Newton, Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Nonantum Road Branch	Newton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
North Beacon Street	Boston, Watertown		In Prog	Met										Met	In Prog	Met	Met	In Prog					
North Border Road	Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
North Harvard Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
North Shore Road	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Norumbega Road	Weston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Oak Island Street	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Ocean Avenue	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Ocean Street	Lynn, Swampscott		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Old Colony Avenue	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Park Drive	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Park Road	Weston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Park Street	Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Parkman Drive	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Pelton Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Perkins Street	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Pine Tops Road	Saugus		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Pond Street	Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Quincy Shore Drive	Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Quinobequin Road	Newton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Ravine Road	Melrose, Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Recreation Road	Weston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Reservation Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Reservoir Street	Winchester		In Prog	Met										Met	In Prog	Met	Met	In Prog					

Table 2: Parkway Best Management Practices

Permit Year 3 Activity																							
BMP #		6-17		6-18										7-3		7-5		7-6		7-9		7-10	
BMP		Maintenance Tracking System		Maintenance Activity Schedule										Federally Listed Endangered Species Habitat		Historic Property Impact		Impaired Waterbodies		Permit Year TMDL Summary		Priority Resource Areas	
Facility	Town	Measurable Goal	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas					
Revere Beach Boulevard	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Revere Beach Parkway	Chelsea, Everett, Medford, Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Revere Street	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
River Street	Boston, Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Riverdale Road	Upton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Riverway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Riverway Frontage Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Rocky Woods Reservation Road	Medfield		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Saint Thomas Moore Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Santilli Circle Connector	Everett		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Sawmill Lane	Dedham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Shirley Avenue	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Shore Drive	Somerville		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Shore Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Smith Field Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Soldiers Field Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Soldiers Field Road Extension	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Soldiers Field Service Road Eastbound	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
South Border Road	Medford, Winchester		In Prog	Met										Met	In Prog	Met	Met	In Prog					
South Street	Stoneham		In Prog	Met										Met	In Prog	Met	Met	In Prog					
State Beach Road	Salisbury		In Prog	Met										Met	In Prog	Met	Met	In Prog					
State Park Road	Ashland		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Storrow Drive	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Sumner Street	Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Terminal Road	Cambridge		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Truman Highway	Boston, Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Truman Parkway	Boston, Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Turtle Pond Parkway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Turtle Pond Parkway Branch	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Unquity Road	Milton		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Upper Arborway	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Veterans Of Foreign Wars Parkway	Boston, Brookline		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Wave Avenue	Revere		In Prog	Met										Met	In Prog	Met	Met	In Prog					
West Border Road	Malden		In Prog	Met										Met	In Prog	Met	Met	In Prog					
West Boundary Road	Boston		In Prog	Met										Met	In Prog	Met	Met	In Prog					
West Roxbury Parkway	Boston, Brookline		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Wompatuck Road	Quincy		In Prog	Met										Met	In Prog	Met	Met	In Prog					
Permit Year 3 Notes		Maintenance Tracking System (FAMIS) continued to be developed.			Met Maintenance Activity Schedule (MAS), Begun to develop web-based reporting format to better track regional compliance with MAS.										Reviewed facilities with outfalls for potential impacts to federally listed endangered species habitat. No parkways identified.	DCR is in the process of reviewing all facilities with outfalls for potential impacts to historic properties.	DCR has identified outfalls which drain to impaired waterbodies.	Refer to Table 8.	The review of DCR outfalls that discharge to one or more special resources is being evaluated by Planning and Engineering.				



Department of Conservation and Recreation
NPDES Storm Water Management Program
Permit Year 3 Annual Report



Table 2: Parkway Best Management Practices

		Permit Year 3 Activity																	
		6-17	6-18										7-3	7-5	7-6	7-9	7-10		
		BMP #	Maintenance Tracking System		Maintenance Activity Schedule										Federally Listed Endangered Species Habitat	Historic Property Impact	Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Areas
Facility	Town	Measurable Goal	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.	
Permit Year 4 Planned Activities						Continue to meet Maintenance Activity Schedule (MAS). Develop web-based reporting format to more effectively track regional compliance with MAS.							No further activity required.	Outfalls identified as having potential impacts will be reviewed with MA Historic Commission to determine if steps need to be taken to resolve a potential negative impact.				Continue to develop program.	

Table 3: Park Facility Best Managment Practices

		Permit Year 3 Activity																
BMP #		1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	1-15	2-1	2-5	3-1	3-4	3-5	6-12	6-13	6-14
BMP		Lower Charles River Middle School Educational Program	CB Stenciling/ Plaques	Boat Club Programs	Boat Traffic Speed Limit Signs	Muddy River Clean Up Program	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Camp Nihan	Stillwater Farm	Abide by MOU with CLF and CRWA	Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	SPCC Plans	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment
Facility	Town	Measurable Goal	Offer to each middle school annually.	Mark all CBs each spring as necessary.	Add requirement to post and monitor "No Wake" zones to permits.	Post speed limit signs on all Lower Charles River bridges.	Jointly sponsor spring and winter cleanups.	Continue to partner with Conservancy	Provide 1 sw/ wq educational program/ yr.	Provide 1 sw/ wq educational program/ yr.	Provide 1 sw/ wq educational program/ yr.	Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Maintain compliance with SPCC plan requirements.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.
Abigail Adams State Park	Weymouth											Met	Met	In Prog			Not Met	In Prog
Alewife Brook Reservation	Arlington, Belmont, Cambridge, Somerville	Not Met										Met	Met	In Prog			Not Met	In Prog
Ames Nowell State Park	Abington											Met	Met	In Prog			Not Met	In Prog
Ashland State Park	Ashland											Met	Met	In Prog			Not Met	In Prog
Back River Reservation/ Stodder's Neck	Hingham, Weymouth											Met	Met	In Prog			Not Met	In Prog
Blackstone River & Canal HSP	Blackstone, Millville, Northbridge, Uxbridge											Met	Met	In Prog			Not Met	In Prog
Blue Hills Reservation (Incl. Trailside Museum and Ponkapoag Golf Course)	Braintree, Canton, Milton, Quincy, Randolph											Met	Met	In Prog			Not Met	In Prog
Breakheart Reservation	Saugus, Wakefield								Met			Met	Met	In Prog			Not Met	In Prog
Bristol Blake State Park	Norfolk											Met	Met	In Prog			Not Met	In Prog
Buffumville State Park	Charlton											Met	Met	In Prog			Not Met	In Prog
Cannalouga Park	Watertown	Not Met										Met	Met	In Prog			Not Met	In Prog
Charles River Reservation	Medfield					Met	Met	Met				Met	Met	In Prog			Not Met	In Prog
Charles River Reservation, Lower Basin	Boston, Cambridge	Not Met				Met	Met	Met				Met	Met	In Prog			Not Met	In Prog
Charles River Reservation, New Basin	Boston, Cambridge	Not Met				Met	Met	Met				Met	Met	In Prog			Not Met	In Prog
Charles River Reservation, Upper Basin	Boston, Cambridge, Brighton, Watertown	Not Met				Met	Met	Met				Met	Met	In Prog			Not Met	In Prog
Charlesbank Park	Boston	Not Met										Met	Met	In Prog			Not Met	In Prog
Christian A. Herter Park	Boston	Not Met										Met	Met	In Prog			Not Met	In Prog
City Square Park	Charlestown											Met	Met	In Prog			Not Met	In Prog
Cochituate State Park	Framingham, Natick, Sherborn, Wayland											Met	Met	In Prog			Not Met	In Prog
Columbia Road Park	Boston	Not Met										Met	Met	In Prog			Not Met	In Prog
Dorchester Shore Reservation (Incl. Malibu, Tenean and Savin Hill Beaches)	Dorchester											Met	Met	In Prog			Not Met	In Prog
Draw Seven Park	Somerville											Met	Met	In Prog			Not Met	In Prog
Dugger Park	Medford											Met	Met	In Prog			Not Met	In Prog
Dunn Pond State Park	Gardner											Met	Met	In Prog			Not Met	In Prog
Fall River Heritage State Park	Fall River											Met	Met	In Prog			Not Met	In Prog
Fellsmere Park	Malden											Met	Met	In Prog			Not Met	In Prog
Five College Bikeway	Northampton											Met	Met	In Prog			Not Met	In Prog
Fort Phoenix State Reservation	Fairhaven											Met	Met	In Prog			Not Met	In Prog
Foss Park	Somerville											Met	Met	In Prog			Not Met	In Prog
Fowl Meadow, Hp	Dedham, Milton											Met	Met	In Prog			Not Met	In Prog
Greenwood Park	Stoneham											Met	Met	In Prog			Not Met	In Prog
Greycourt State Park	Methuen											Met	Met	In Prog			Not Met	In Prog
Hammond Pond Reservation	Newton	Not Met										Met	Met	In Prog			Not Met	In Prog
Hampton Ponds State Park	Westfield											Met	Met	In Prog			Not Met	In Prog
Holyoke Heritage State Park	Holyoke											Met	Met	In Prog			Not Met	In Prog
Houghton's Pond Recreation Area	Milton											Met	Met	In Prog			Not Met	In Prog
Indian Line Farm (Active remediation plans)	Canton											Met	Met	In Prog			Not Met	In Prog
Landry Park	Waltham	Not Met										Met	Met	In Prog			Not Met	In Prog
Lawrence Riverfront State Park	Lawrence											Met	Met	In Prog			Not Met	In Prog

Table 3: Park Facility Best Managment Practices

Facility	Town	Permit Year 3 Activity																	
		BMP #	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	1-15	2-1	2-5	3-1	3-4	3-5	6-12	6-13	6-14
		BMP	Lower Charles River Middle School Educational Program	CB Stenciling/ Plaques	Boat Club Programs	Boat Traffic Speed Limit Signs	Muddy River Clean Up Program	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Camp Nihan	Stillwater Farm	Abide by MOU with CLF and CRWA	Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	SPCC Plans	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment
Measurable Goal	Offer to each middle school annually.	Mark all CBs each spring as necessary.	Add requirement to post and monitor "No Wake" zones to permits.	Post speed limit signs on all Lower Charles River bridges.	Jointly sponsor spring and winter cleanups.	Continue to partner with Conservancy	Provide 1 sw/ wq educational program/ yr.	Provide 1 sw/ wq educational program/ yr.	Provide 1 sw/ wq educational program/ yr.		Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Maintain compliance with SPCC plan requirements.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.		
Leo J. Martin Memorial Golf Course	Weston											Met	Met	In Prog			Not Met	In Prog	
Lowell Heritage State Park	Lowell											Met	Met	In Prog			Not Met	In Prog	
Lowell Park	Cambridge	Not Met										Met	Met	In Prog			Not Met	In Prog	
Lower Neponset River Trail	Dorchester, Milton											Met	Met	In Prog			Not Met	In Prog	
Lynn - Nahant Beach	Lynn											Met	Met	In Prog			Not Met	In Prog	
Lynn Heritage State Park	Lynn											Met	Met	In Prog			Not Met	In Prog	
Lynn Shore Reservation	Lynn											Met	Met	In Prog			Not Met	In Prog	
Martini Shell	Hyde Park											Met	Met	In Prog			Not Met	In Prog	
Medford Boat Club	Arlington											Met	Met	In Prog			Not Met	In Prog	
Middlesex Fells Reservations	Malden, Medford, Melrose, Stoneham, Winchester											Met	Met	In Prog			Not Met	In Prog	
Mother Brook Reservation	Boston, Dedham	Not Met				Met?						Met	Met	In Prog			Not Met	In Prog	
Moynihan Park	Hyde Park											Met	Met	In Prog			Not Met	In Prog	
Msgr. John B. Condon Shell	Medford											Met	Met	In Prog			Not Met	In Prog	
Mystic Lakes Reservation	Medford, Winchester											Met	Met	In Prog			Not Met	In Prog	
Mystic River Reservation	Arlington, Everett, Medford, Somerville											Met	Met	In Prog			Not Met	In Prog	
Nashua Street Park	Boston	Not Met				Met?						Met	Met	In Prog			Not Met	In Prog	
Neponset River Reservation	Boston, Canton, Dedham, Milton	Not Met										Met	Met	In Prog			Not Met	In Prog	
Nickerson State Park	Brewster, Orleans											Met	Met	In Prog			Not Met	In Prog	
North Point Park	Cambridge	Not Met										Met	Met	In Prog			Not Met	In Prog	
Oak Island Boat Ramp	Shrewsbury											Met	Met	In Prog			Not Met	In Prog	
Paul Revere Park	Charlestown											Met	Met	In Prog			Not Met	In Prog	
Pope John Paul II Park	Dorchester											Met	Met	In Prog			Not Met	In Prog	
Quincy Shore Reservation (incl. Caddy Park, Wollaston Beach)	Quincy											Met	Met	In Prog			Not Met	In Prog	
Quinsigamond State Park	Shrewsbury, Worcester											Met	Met	In Prog			Not Met	In Prog	
Red Rock Park	Lynn											Met	Met	In Prog			Not Met	In Prog	
Revere Beach Reservation	Revere											Met	Met	In Prog			Not Met	In Prog	
Riverwalk Park	Waltham	Not Met										Met	Met	In Prog			Not Met	In Prog	
Robinson State Park	Agawam, West Springfield, Westfield											Met	Met	In Prog			Not Met	In Prog	
Ryan Field	Mattapan											Met	Met	In Prog			Not Met	In Prog	
South Watuppa Boat Ramp	Fall River											Met	Met	In Prog			Not Met	In Prog	
Squantum Point Park	Quincy											Met	Met	In Prog			Not Met	In Prog	
State Fish Pier	Gloucester											Met	Met	In Prog			Not Met	In Prog	
Stillwater Farm	Sterling									Met		Met	Met	In Prog			Not Met	In Prog	
Stony Brook Reservation (incl. Thompson Center)	Boston, Dedham	Not Met										Met	Met	In Prog			Not Met	In Prog	
Teddy Ebersol - Lederman Field	Boston	Not Met										Met	Met	In Prog			Not Met	In Prog	
Tully Lake Recreation Area	Royalston											Met	Met	In Prog			Not Met	In Prog	
Wachusett State Park	Princeton											Met	Met	In Prog			Not Met	In Prog	
Winthrop Shore Reservation	Winthrop											Met	Met	In Prog			Not Met	In Prog	

Table 3: Park Facility Best Managment Practices

		Permit Year 3 Activity																	
		BMP #	1-2	1-3	1-5	1-6	1-7	1-8	1-9	1-11	1-15	2-1	2-5	3-1	3-4	3-5	6-12	6-13	6-14
		BMP	Lower Charles River Middle School Educational Program	CB Stenciling/ Plaques	Boat Club Programs	Boat Traffic Speed Limit Signs	Muddy River Clean Up Program	Charles River Conservancy Clean Up Program	Charles River Reservation School Program	Camp Nihan	Stillwater Farm	Abide by MOU with CLF and CRWA	Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	SPCC Plans	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment
Facility	Town	Measurable Goal	Offer to each middle school annually.	Mark all CBs each spring as necessary.	Add requirement to post and monitor "No Wake" zones to permits.	Post speed limit signs on all Lower Charles River bridges.	Jointly sponsor spring and winter cleanups.	Continue to partner with Conservancy	Provide 1 sw/ wq educational program/ yr.	Provide 1 sw/ wq educational program/ yr.	Provide 1 sw/ wq educational program/ yr.		Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Maintain compliance with SPCC plan requirements.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.
Permit Year 3 Notes			Temporarily inactive due to lack of staff.	Included in CB repair and cleaning contracts.	No action required during Permit Year 3.	No action required during Permit Year 3.		DCR continues to assist and coordinate support for this clean up program.	Program is active and provides diverse environmental education curricula including water quality.	Program is active and provides diverse environmental education curricula including water quality.	Facility provides interpretive services and self-guided tour information with emphasis on watershed management.		Concern/ feedback tracking and response system implemented.	Outfalls at each facility have been mapped.	Working with consultant to develop a GIS Drainage System Inventory scope of work.	No action planned for Permit Year 3 according to SWMP schedule.		Prepared scope of work for consultant to perform work in Permit Year 4.	Collected GIS-based data (inc. condition and locations) of approx. 1,700 catch basins. 73 catch basins identified in need of repair. Included in 2006 catch basin repair contract.
Permit Year 4 Planned Activities			Re-staff and provide program once to each Boston, Wellesley, Dedham, Needham, Newton, Waltham, Watertown, Brookline and Cambridge middle schools.	Included in CB repair and cleaning contracts. Park managers are reviewing if their facilities have catch basins. Parks with CBs will request a cleaning through the DCR's asset management system for 2006. Part of the CB cleaning will be inspection of stencil/ plaque message and update as	Will be included in permits issued for 2007 boating season.	DCR will install speed limit signs on Charles River bridge spans visible from river.	Annual program will be conducted in April 2006.	Continue assistance and coordination of support for clean up program.	Provide diverse environmental education curricula including water quality.	Provide diverse environmental education curricula including water quality.	Continue to provide interpretive services and self-guided tour information with emphasis on watershed management.		Continue system.	New outfalls constructed will be added to GIS database. No future action proposed.	Consultant to begin inventory work in late spring.	Begin outfall sampling - Spring 2006. Begin with potential illicit discharges identified by public and DCR staff.		DCR has hired a consultant to extract drainage information from digitized DCR plans. Consultant (ENSR) will provide field verification and assist DCR with collecting addn information to prepare a GIS-suitable drainage infrastructure data layer. Data layer will include information regarding condition and need for repair.	Hired a consultant to extract drainage information from DCR plans. Consultant (ENSR) will provide field verification and assist DCR with collecting addn information to prepare a GIS-suitable drainage infrastructure data layer. Data layer will include information regarding CB and discharge pipe condition and need for repair. DCR will continue to include CBs identified in need of repair in following year's CB repair contract.
				Goal Not Met															
				Goal in Progress															
				Goal Achieved															
				Goal Not Applicable															

Table 3: Park Facility Best Managment Practices

		Permit Year 3 Activity																	
BMP #		6-15	6-17	6-18											7-3	7-5	7-6	7-9	7-10
BMP		Wet Weather Review and Repairs	Maintenance Tracking System	Maintenance Activity Schedule											Federally Listed Endangered Species Habitat	Historic Property Impact	Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Areas
Facility	Town	Measurable Goal	Perform assessment annually. Create assessment report.	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.
Abigail Adams State Park	Weymouth		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Alewife Brook Reservation	Arlington, Belmont, Cambridge, Somerville		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Ames Nowell State Park	Abington		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Ashland State Park	Ashland		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Back River Reservation/ Stodder's Neck	Hingham, Weymouth		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Blackstone River & Canal HSP	Blackstone, Millville, Northbridge, Uxbridge		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Blue Hills Reservation (Incl. Trailside Museum and Ponkapoag Golf Course)	Braintree, Canton, Milton, Quincy, Randolph		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Breakheart Reservation	Saugus, Wakefield		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Bristol Blake State Park	Norfolk		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Buffumville State Park	Charlton		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Cannalouga Park	Watertown		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Charles River Reservation	Medfield		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Charles River Reservation, Lower Basin	Boston, Cambridge		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Charles River Reservation, New Basin	Boston, Cambridge		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Charles River Reservation, Upper Basin	Boston, Cambridge, Brighton, Watertown		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Charlesbank Park	Boston		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Christian A. Herter Park	Boston		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
City Square Park	Charlestown		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Cochituate State Park	Framingham, Natick, Sherborn, Wayland		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Columbia Road Park	Boston		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Dorchester Shore Reservation (Incl. Malibu, Tenean and Savin Hill Beaches)	Dorchester		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Draw Seven Park	Somerville		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Dugger Park	Medford		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Dunn Pond State Park	Gardner		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Fall River Heritage State Park	Fall River		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Fellsmere Park	Malden		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Five College Bikeway	Northampton		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Fort Phoenix State Reservation	Fairhaven		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Foss Park	Somerville		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Fowl Meadow, Hp	Dedham, Milton		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Greenwood Park	Stoneham		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Greycourt State Park	Methuen		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Hammond Pond Reservation	Newton		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Hampton Ponds State Park	Westfield		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Holyoke Heritage State Park	Holyoke		Not Met	In Prog	Met										Short Nose Sturgeon Habitat Identified - Reviewed by NOAA - Determined No Effect	In Prog	Met	Met	In Prog
Houghton's Pond Recreation Area	Milton		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Indian Line Farm (Active remediation plans)	Canton		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Landry Park	Waltham		Not Met	In Prog	Met										Met	In Prog	Met	Met	In Prog
Lawrence Riverfront State Park	Lawrence		Not Met	In Prog	Met										Dwarf Wedge Mussel Habitat Identified - Currently Being Reviewed by US Fish and Wildlife	In Prog	Met	Met	In Prog

Table 3: Park Facility Best Managment Practices

		Permit Year 3 Activity																	
BMP #		6-15	6-17	6-18											7-3	7-5	7-6	7-9	7-10
BMP		Wet Weather Review and Repairs	Maintenance Tracking System	Maintenance Activity Schedule											Federally Listed Endangered Species Habitat	Historic Property Impact	Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Areas
Facility	Town	Measurable Goal	Perform assessment annually. Create assessment report.	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.
Leo J. Martin Memorial Golf Course	Weston	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Lowell Heritage State Park	Lowell	Not Met	In Prog	Met											Dwarf Wedge Mussel Habitat Identified - Currently Being Reviewed by US Fish and Wildlife	In Prog	Met	Met	In Prog
Lowell Park	Cambridge	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Lower Neponset River Trail	Dorchester, Milton	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Lynn - Nahant Beach	Lynn	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Lynn Heritage State Park	Lynn	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Lynn Shore Reservation	Lynn	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Martini Shell	Hyde Park	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Medford Boat Club	Arlington	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Middlesex Fells Reservations	Malden, Medford, Melrose, Stoneham, Winchester	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Mother Brook Reservation	Boston, Dedham	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Moynihan Park	Hyde Park	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Msgr. John B. Condon Shell	Medford	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Mystic Lakes Reservation	Medford, Winchester	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Mystic River Reservation	Arlington, Everett, Medford, Somerville	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Nashua Street Park	Boston	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Neponset River Reservation	Boston, Canton, Dedham, Milton	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Nickerson State Park	Brewster, Orleans	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
North Point Park	Cambridge	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Oak Island Boat Ramp	Shrewsbury	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Paul Revere Park	Charlestown	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Pope John Paul II Park	Dorchester	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Quincy Shore Reservation (Incl. Caddy Park, Wollaston Beach)	Quincy	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Quinsigamond State Park	Shrewsbury, Worcester	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Red Rock Park	Lynn	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Revere Beach Reservation	Revere	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Riverwalk Park	Waltham	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Robinson State Park	Agawam, West Springfield, Westfield	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Ryan Field	Mattapan	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
South Watuppa Boat Ramp	Fall River	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Squantum Point Park	Quincy	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
State Fish Pier	Gloucester	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Stillwater Farm	Sterling	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Stony Brook Reservation (incl. Thompson Center)	Boston, Dedham	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Teddy Ebersol - Lederman Field	Boston	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Tully Lake Recreation Area	Royalston	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Wachusett State Park	Princeton	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog
Winthrop Shore Reservation	Winthrop	Not Met	In Prog	Met											Met	In Prog	Met	Met	In Prog

Table 3: Park Facility Best Managment Practices

		Permit Year 3 Activity																	
		BMP #	6-15	6-17	6-18								7-3	7-5	7-6	7-9	7-10		
		BMP	Wet Weather Review and Repairs	Maintenance Tracking System	Maintenance Activity Schedule								Federally Listed Endangered Species Habitat	Historic Property Impact	Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Areas		
Facility	Town	Measurable Goal	Perform assessment annually. Create assessment report.	Develop system. Add stormwater infrastructure from inventory.	Sweep Streets Annually.	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review for erosion and storm water issues annually.	Perform fleet maintenance twice a year.	Inspect buildings for compliance with good housekeeping measures weekly.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.
Permit Year 3 Notes			Prepared scope of work for consultant to perform work in Permit Year 4.	Maintenance Tracking System (FAMIS) continued to be developed.		Met Maintenance Activity Schedule (MAS), Begun to develop web-based reporting format to better track regional compliance with MAS.								DCR has reviewed all facilities with outfalls for potential impacts to federally listed endangered species habitat. 3 park facilities were identified with outfalls within species habitat. Letters have been written to appropriate agencies for review of potential impact.	DCR is in the process of reviewing all facilities with outfalls for potential impacts to historic properties.	DCR has identified outfalls which drain to impaired waterbodies.	Refer to Table 8.	The review of DCR outfalls that discharge to one or more special resources is being evaluated by Planning and Engineering.	
Permit Year 4 Planned Activities			DCR has hired a consultant to extract drainage information from digitized DCR plans and develop GIS data layer. Data layer will include information regarding CB and pipe condition and need for repair including clogged pipes. DCR will include pipes identified in need of repair or clogged in following year's maintenance contract.			Continue to meet Maintenance Activity Schedule (MAS). Develop web-based reporting format to more effectively track regional compliance with MAS.								Complete follow up with agencies reviewing potential impacts.	Outfalls identified as having potential impacts will be reviewed with MA Historic Commission to determine if steps need to be taken to resolve a potential negative impact.			Continue to develop program.	

Table 4: Beach Facility Best Management Practices

Permit Year 3 Activity																					
BMP #	1-4	3-1	3-4	3-5	6-13	6-14	6-17	6-18							7-3	7-5	7-6	7-9	7-10		
BMP	Publish Water Quality Reports and Post Beaches	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	Roadway and Drainage Infrastructure Assessment	CB Repair/ Discharge Pipe Cleaning Needs Assessment	Maintenance Tracking System	Maintenance Activity Schedule							Federally Listed Endangered Species Habitat	Historic Property Impact	Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Areas		
Measurable Goal	Publish WQ reports daily on website.	Identify drainage outfalls and create map.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Develop system. Add stormwater infrastructure from inventory.	Sweep streets monthly (or more frequently as needed).	Clean CB and piping every two years.	Inspect Detention Ponds Annually	Inspect water quality swales annually	Inspect drainage swales annually	Inspect infiltration systems 2x/yr.	Inspect water quality inlets 2x/yr.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.		
Facility	Town	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog		
Carson Beach	Boston	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
City Point Beach	Boston	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
King's Beach	Lynn	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Lynn Beach	Lynn	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
M Street Beach	Boston	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Malibu Beach	Boston	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Nahant Beach	Nahant	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Natasket Beach	Hull	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Pleasure Bay Beach	Boston	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Revere Beach	Revere	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Sandy Beach	Winchester	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Short Beach	Revere, Winthrop	Met	Met	In Prog			Not Met	In Prog	In Prog	Met		In Prog		Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Winthrop Beach	Winthrop	Met	Met	In Prog			Not Met	In Prog	In Prog	Met		In Prog		Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog
Wollaston Beach	Quincy	Met	Met	In Prog		Not Met	In Prog	In Prog	Met	In Prog		Met	In Prog	In Prog	Met	In Prog	In Prog	Met	In Prog		
Permit Year 3 Notes	Weekly beach water quality monitoring and reporting through 2005 season (June through September).	Outfalls at each facility have been mapped.	Working with consultant to develop a GIS Drainage System Inventory scope of work.	No action planned for Permit Year 3 according to SWMP schedule.	DCR has GPS mapped and assessed the condition of 40% (or approx. 2,000 of the 5,000) catch basins and all outfalls.	Collected GIS-based data (inc. condition and locations) of approx. 2,000 catch basins identified in need of repair. Included in 2006 catch basin repair contract.	Maintenance Tracking System (FAMIS) continued to be developed.	Met schedule.	Cleaned all CBs. Cleaning of lateral piping not included in contract.	Unable to report on detention basins, water quality swales and infiltration basins since a comprehensive facility specific data base is not available. Drainage system infrastructure inventory proposed will make this possible. Begun to develop web-based reporting format to better track regional compliance with MAS.				DCR has reviewed all facilities with outfalls for potential impacts to federally listed endangered species habitat. No beach facilities identified.	DCR is in the process of reviewing all facilities with outfalls for potential impacts to historic properties.	DCR's Consultant (ENSR) has reviewed which outfalls discharge to a watershed basin which includes an impaired waterbody.	Refer to Table 8.	The review of DCR outfalls that discharge to one or more special resources is being evaluated by Planning and Engineering.			
Permit Year 4 Planned Activities	Provide wq reports on web for all beaches throughout the season.	No activity proposed.	Consultant to begin inventory work in late spring.	Begin outfall sampling - Spring 2006. Begin with potential illicit discharges identified by public and DCR staff.	DCR has hired a consultant to extract drainage information from digitized DCR plans. Consultant (ENSR) will provide field verification and assist DCR with collecting addn information to prepare a GIS-suitable drainage infrastructure data layer. Data layer will include information regarding condition and need for repair.	Hired a consultant to extract drainage information from DCR plans. Consultant (ENSR) will provide field verification and assist DCR with collecting addn information to prepare a GIS-suitable drainage infrastructure data layer. Data layer will include information regarding CB and discharge pipe condition and need for repair. DCR will continue to include CBs identified in need of repair in following year's CB repair contract.	Continue to develop system. Explore adding drainage infrastructure inventory information from BMP 3-4.	Continue to meet Maintenance Activity Schedule (MAS). Complete drainage system infrastructure inventory. Develop web-based reporting format to more effectively track regional compliance with MAS.							No additional activity required.	Outfalls identified as having potential impacts will be reviewed with MA Historic Commission to determine if steps need to be taken to resolve a potential negative impact.	ENSR will divide the overall basins into individual watersheds for impaired waterbodies to be able to link outfalls directly to impaired waterbodies and impairment. This table will then be used during project's planning stages to identify projects which could add BMPs to address the impairment.	Update table for TMDLs finalized by April 2007.	Continue to develop program.		

Goal Not Met

Goal in Progress

Goal Achieved

Goal Not Applicable



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Table 5: Water Supply/ Reservoir Facility Best Managment Practices

		2-5	3-1	3-4	3-5	4-8	6-8	6-13	6-14	6-17	6-18								
BMP #		Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	Illicit Connection Sampling Program	Technical Assistance to ConComs	Chemical Applications Review Mtgs.	Roadway and Drainage Infrastructure Assessment	CB Repair/Discharge	Maintenance Tracking System	Maintenance Activity Schedule								
Measurable Goal		Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Review 20% of mapped system each permit year to identify illicit connections	Provide technical assistance to ConCom within Div. of Watershed Protection's (DWSP) watershed. Provide comments on stormwater concerns that may impact reservoirs.	Meet w/ railroad & utility companies that have property, easements, access privileges in DWSP's watershed.	Perform assessment annually. Create assessment report.	Perform assessment annually. Create assessment report.	Develop system. Add stormwater infrastructure from inventory.	Sweep streets annually.	Clean CB and piping every two years.	CB rehabilitation and repair annually and clean per inspection recmndn.	Inspect detention ponds annually, clean per inspection recmndn.	Inspect water quality swales annually, clean per inspection recmndn.	Inspect drainage swales annually, clean per inspection recmndn.	Inspect water quality inlets 2x/yr, clean per inspection recmndn.	Inspect infiltration systems 2x/yr, clean per inspection recmndn.	Building maintenance weekly, clean per inspection recmndn.
Facility	Town																		
Brighton Upper Basin Facility	Brighton	Met	Met	In Prog				Not Met	In Prog	In Prog	Met								
New Charles River Dam	Boston	Met	Met	In Prog				Not Met	In Prog	In Prog	Met								
Nash Hill Reservoir	Ludlow	Met	Met	In Prog		Met	Met	Not Met	In Prog	In Prog	Met								
Sudbury Watershed Lands	Sudbury	Met	Met	In Prog		Met	Met	Not Met	In Prog	In Prog	Met								
Permit Year 3 Notes		Concern/ feedback tracking and response system implemented.	Outfalls at each facility have been mapped.	Working with consultant to develop a GIS Drainage System Inventory scope of work.	No action planned for Permit Year 3 according to SWMP schedule.	DCR provides technical assistance to Conservation Commissions as requested or as common concerns are identified. Assistance provided monthly as indiv. Local agendas and issues dictate.	Chemical application review plans are reviewed in June every other year, unless specific meetings are requested.	Prepared scope of work for consultant to perform work in Permit Year 4.	Collected GIS-based data (inc. condition and locations) of approx. 1,700 catch basins. 73 catch basins identified in need of repair. Included in 2006 catch basin repair contract.	Maintenance Tracking System (FAMIS) continued to be developed.	Met Maintenance Activity Schedule (MAS). Begun to develop web-based reporting format to better track regional compliance with MAS.								
Permit Year 4 Planned Activities		Continue system.	New outfalls constructed will be added to GIS database. No future action proposed.	Consultant to begin inventory work in late spring.	Begin outfall sampling - Spring 2006. Begin with potential illicit discharges identified by public and DCR staff.	Continue to provide assistance as needed by towns in watershed.		DCR has hired a consultant to extract drainage information from digitized DCR plans. Consultant (ENSR) will provide field verification and assist DCR with collecting addn information to prepare a GIS-suitable drainage infrastructure data layer. Data layer will include information regarding condition and need for repair.	Hired a consultant to extract drainage information from DCR plans. Consultant (ENSR) will provide field verification and assist DCR with collecting addn information to prepare a GIS- suitable drainage infrastructure data layer. Data layer will include information regarding CB and discharge pipe condition and need for repair. DCR will continue to include CBs identified in need of repair in following year's CB repair contract.		Continue to meet Maintenance Activity Schedule (MAS). Develop web-based reporting format to more effectively track regional compliance with MAS.								

	Goal Not Met
	Goal in Progress
	Goal Achieved
	Goal Not Applicable



Table 5: Water Supply/ Reservoir Facility Best Managment Practices

BMP #	7-3	7-5	7-6	7-9	7-10
BMP	Review Drainage Outfall Inventory with State and Federal Listed Species Habitat	Review Drainage Inventory for Potential Impacts to Historic Properties	Review Drainage Inventory for Outfalls which Drain to Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Area Review Program
Measurable Goal	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.

Facility	Town					
Brighton Upper Basin Facility	Brighton	Met	In Prog	Met	Met	In Prog
New Charles River Dam	Boston	Met	In Prog	Met	Met	In Prog
Nash Hill Reservoir	Ludlow	Met	In Prog	Met	Met	In Prog
Sudbury Watershed Lands	Sudbury	Met	In Prog	Met	Met	In Prog
Permit Year 3 Notes		DCR has reviewed all facilities with outfalls for potential impacts to federally listed endangered species habitat and no water supply facilities were identified.	DCR is in the process of reviewing all facilities with outfalls for potential impacts to historic properties.	DCR has identified outfalls which drain to impaired waterbodies.	Refer to Table 8.	The review of DCR outfalls that discharge to one or more special resources is being evaluated by Planning and Engineering.
Permit Year 4 Planned Activities		No additional activity required.	Outfalls identified as having potential impacts will be reviewed with MA Historic Commission to determine if steps need to be taken to resolve a potential negative impact.			Continue to develop program.

Table 6: State Forest Best Managment Practices

[illegible]

Table 7: Construction Site Best Managment Practices

BMP #		2-5	3-1	3-4	4-1	4-4	7-3	7-5	7-6	7-9	7-10
BMP		Public Concerns/ Feedback on DCR Website	Drainage Outfall Inventory	Drainage Infrastructure Inventory	NPDES Storm Water Construction General Permit	Construction Site Monitoring	Review Drainage Outfall Inventory with State and Federal Listed Species Habitat	Review Drainage Inventory for Potential Impacts to Historic Properties	Review Drainage Inventory for Outfalls which Drain to Impaired Waterbodies	Permit Year TMDL Summary	Priority Resource Area Review Program
Measurable Goal		Forward concerns/ feedback received to appropriate dept. Track response to concerns.	Locate all known outfalls within urbanized areas.	Develop state-wide drainage infrastructure map.	Summarize # of construction sites which filed for coverage under CGP each year.	Continue to staff construction projects with Resident Engineer (RE) or Inspector. Complete CGP weekly inspections.	Review if outfalls potentially impact habitat.	Review if outfalls potentially impact historic property.	Review if outfalls drain to impaired waterbody.	Review if TMDL include implementation recommendation regarding DCR.	Review if outfalls potentially impact addn priority resource areas.
Facility	Town										
		Met	Met	In Prog	In Prog	Met	Met	In Prog			Not Met
		Met	Met	In Prog	In Prog	Met	Met	In Prog			Not Met
		Met	Met	In Prog	In Prog	Met	Met	In Prog			Not Met
		Met	Met	In Prog	In Prog	Met	Met	In Prog			Not Met
Permit Year 3 Notes		Concern/ feedback tracking and response system implemented.			DCR has completed preliminary identification and permitting review of all DCR urban parks construction sites.	DCR staffs each construction site w/ a RE or Inspector. Responsibilities include E &S inspections and identification of necessary repairs or remedial actions.	DCR has reviewed all facilities owned and operated by DCR for location within federal endangered species habitat. Four facilities were identified and are being reviewed by appropriate agencies.	DCR is in the process of reviewing all facilities with outfalls for potential impacts to historic properties.	DCR has identified outfalls which drain to impaired waterbodies.	Refer to Table 8.	The review of DCR outfalls that discharge to one or more special resources is being evaluated by Planning and Engineering.
Permit Year 4 Planned Activities		Continue system.	Outfalls constructed as part of construction projects after Spring 2006 will require submission of drainage infrastructure as- builts which will be added to GIS database.	Drainage infrastructure constructed as part of construction projects after Spring 2006 will require submission of drainage infrastructure as- builts which will be added to GIS database.	Maintain compliance with all construction sites which have filed for coverage under CGP. File for coverage for all new construction sites which exceed one acre threshold.	Continue to staff sites.	All new construction projects will be reviewed during conceptual stage for potential impacts to endangered species habitat.	All new construction projects will be reviewed during conceptual stage for potential impacts to historic properties.	All new construction projects will be reviewed during conceptual stage for discharges to impaired waterbodies. BMPs will be added to the project if determined necessary to address pollutant of concern for the impaired waterbody.	All new construction projects will be reviewed during conceptual stage for discharges to impaired waterbodies which have TMDL reports. Measures will be added to the project to meet the implementation measures outlined in the TMDL report, as appropriate.	All new construction projects will be reviewed during conceptual stage for potential impacts to these additional resource areas.

Goal Not Met

Goal in Progress

Goal Achieved

Goal Not Applicable



7b. WLA Assessment

TMDL reports were reviewed for discussion of implementation activities which may impact or directly mention DCR's facility or roadways and are summarized in Table 8. DCR will continue to review compliance with these recommended activities. Table 8 summarizes the final TMDLs approved as of March 31, 2005 and the implementation recommendations which impact DCR facilities.



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Table 8: MA TMDL Reports with DCR Related Implementation Recommendations

Basin	Specific Waterbodies	Pollutant of Concern	Does TMDL include a WLA?	Does the TMDL include BMP recommendations or performance requirement regarding DCR, DEM or MDC?	If yes, what are the recommendations?	Is Agency meeting these recommendations through existing or proposed programs?	How is Agency currently meeting these recommendations or how does Agency plan to meet them in the future?
Bare Hill Pond	Bare Hill Pond	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean Lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.
Chicopee Basin	Browning Pond, Oakham Long Pond, Springfield Sugden Reservoir, Spencer Mona Lake, Springfield Minechoag Pond, Ludlow Spectacle Pond, Wilbraham Wickaboag Pond, Brookfield	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean Lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.
Connecticut Basin	Aldrich Lake East, Granby Aldrich Lake West, Granby Leverett Pond, Leverett Lake Wyola, Shutesbury Loon Pond, Springfield Lake Warner, Hadley	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.
French Basin	Buffumville Lake, Charlton Dutton Pond, Leicester Greenville Pond, Leicester Lowes Pond, Oxford McKinstry Pond, Oxford Pierpoint Meadow Pond, Dudley/Charlton Pikes Pond, Charlton Rochdale Pond, Leicester Texas Pond, Oxford	Phosphorus	Yes	Yes	1. The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean lakes Program now administered by EPA and, in Massachusetts, the DEM. 2. DEM forester should check that an approved forest cutting plan is in place and BMPs for erosion are being followed.	Yes Yes	Refer to BMP 2-8. Refer to BMP 7-7.



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Table 8: MA TMDL Reports with DCR Related Implementation Recommendations

Basin	Specific Waterbodies	Pollutant of Concern	Does TMDL include a WLA?	Does the TMDL include BMP recommendations or performance requirement regarding DCR, DEM or MDC?	If yes, what are the recommendations?	Is Agency meeting these recommendations through existing or proposed programs?	How is Agency currently meeting these recommendations or how does Agency plan to meet them in the future?
Indian Lake	Indian Lake, Worcester	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean Lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.
Lake Boon (Boons Pond)	Lake Boon, Hudson/Stow	Phosphorus	Yes	Yes	1. The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean lakes Program now administered by EPA and, in Massachusetts, the DEM. 2. DEM forester should check that an approved forest cutting plan is in place and BMPs for erosion are being followed.	Yes Yes	Refer to BMP 2-8. Refer to BMP 7-7.
Lake Quinsigamond and Flint Pond	Flint Pond, Grafton/ Worcester/ Shrewsbury Lake Quinsigamond, Worcester/ Shrewsbury	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean Lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.
Leesville Pond	Leesville Pond, Auburn/Worcester	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean Lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.



Department of Conservation and Recreation
NPDES Storm Water Management Program
Permit Year 3 Annual Report

Table 8: MA TMDL Reports with DCR Related Implementation Recommendations

Basin	Specific Waterbodies	Pollutant of Concern	Does TMDL include a WLA?	Does the TMDL include BMP recommendations or performance requirement regarding DCR, DEM or MDC?	If yes, what are the recommendations?	Is Agency meeting these recommendations through existing or proposed programs?	How is Agency currently meeting these recommendations or how does Agency plan to meet them in the future?
Miller River Basin	Bents Pond Bourn-Hadley Pond Brazell Pond Lake Ellis Greenwood Pond Lake Monomonac Ramsdall Pond Reservoir No. 1 Wallace Pond Whitney Pond	Phosphorus	Yes	Yes	1. The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean lakes Program now administered by EPA and, in Massachusetts, the DEM. 2. DEM forester should check that an approved forest cutting plan is in place and BMPs for erosion are being followed.	Yes Yes	Refer to BMP 2-8. Refer to BMP 7-7.
Northern Blackstone	Auburn Pond, Auburn Curtis Pond North, Worcester Curtis Pond South, Worcester Dorothy Pond, Millbury Eddy Pond, Auburn Pondville Pond, Auburn Smiths Pond, Leicester Southwick Pond, Leicester Stoneville Pond, Auburn	Phosphorus	Yes	Yes	1. The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean lakes Program now administered by EPA and, in Massachusetts, the DEM. 2. DEM forester should check that an approved forest cutting plan is in place and BMPs for erosion are being followed.	Yes Yes	Refer to BMP 2-8. Refer to BMP 7-7.
Salisbury Pond	Salisbury Pond, Worcester	Phosphorus	Yes	Yes	The MA DEP will endorse in-lake remediation efforts that meet all environmental concerns, however, instituting such measures will rest with communities and the Clean Lakes Program now administered by EPA and, in Massachusetts, the DEM.	Yes	Refer to BMP 2-8.



Part IV. Summary of Information Collected and Analyzed

DCR collected surface water samples at 18 locations regularly from June -September 2005 for public health advisory purposes. These samples were analyzed and water quality findings reported, if required. DCR will combine water sampling and analytical services for beach postings with IDDE sampling requirements. A master service agreement will be used to combine various DCR water sampling activities under one service agreement to provide the necessary analytical services to support IDDE sampling program for 2006. EOEa issued a Massachusetts Environmental Trust grant to a group of watershed advocacy associations with express interest to collect water quality information from DCR outfalls and public waterways under its jurisdiction. In April this group has begun efforts to conduct shoreline surveys along the Charles River to identify erosion, pipes and outfalls, and the condition and types of biota observed. After shoreline surveys are completed this spring, water quality sampling will be done at those locations identified having dry weather flows or suspicious discharges. DCR does not expect any water quality information from outfall or surface water samples under this MET grant program until Summer 2006.

Part V. Program Outputs & Accomplishments

All programs and accomplishments are summarized in the appropriate tables.



Appendix A:

**Memorandum of Understanding by and Among the Department of Conservation and Recreation,
Charles River Watershed Association and Conservation Law Foundation dated August 18, 2005**

**MEMORANDUM OF UNDERSTANDING
BY AND AMONG
THE
DEPARTMENT OF CONSERVATION AND RECREATION,
CHARLES RIVER WATERSHED ASSOCIATION
AND
CONSERVATION LAW FOUNDATION**

PARTIES

The Department of Conservation and Recreation, 251 Causeway Street, Boston, MA 02114 ("DCR"); Conservation Law Foundation, 62 Summer Street, Boston, MA 02110 ("CLF"); and Charles River Watershed Association, 48 Woerd Avenue, Waltham, MA 02453 ("CRWA") (collectively, the "Parties").

BACKGROUND

On July 30, 2003, DCR submitted a Notice of Intent ("NOI") seeking coverage under the National Pollutant Discharge Elimination System ("NPDES") General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems ("Small MS4s"). EPA sent a letter dated April 8, 2005 to DCR informing it that the NOI was administratively incomplete and that DCR was discharging without a legal permit. On April 25, 2005, CLF sent a 60 day notice of intent to sue letter to DCR under Section 301(a) of the Clean Water Act ("CWA") on the grounds that it was discharging without a permit. DCR has moved forward with development of a new NOI, including technical discussions with CLF and CRWA; and following productive discussions with EPA, DCR has funded and completed a wide-range of measures for the benefit of storm water management and quality, such as: street sweeping on all DCR urban parkways; an aggressive program of catch basin cleaning and repairs; and an emphasis on ongoing environmental audit efforts at DCR facilities. CLF and CRWA, after consultation with the DCR Stormwater Team established by DCR in response to the EPA April 8, 2005 notice, are entering into this MOU as a means of resolving CLF's and CRWA's assertions of DCR's failure to comply with the Act as well as to maintain a productive dialogue regarding storm water management issues.

PURPOSE

The purpose of this MOU among DCR, CLF, and CWRA is to ensure that DCR addresses compliance with the CWA and its obligations under the Phase II Small MS4 program.

AGREEMENT

The Parties agree to the following:

- I. DCR shall, subject to appropriations and availability of funds, perform the following activities listed in paragraphs A-L. In any event, DCR shall propose the following activities listed in paragraphs A-L in its long-term spending plan.
 - A. Identify and assess the general condition of its roadway, parkway and boulevard drainage infrastructure within urbanized areas and develop a draft plan and budget for the repair and/or replacement of degraded, malfunctioning or obsolete drainage infrastructure by April 1, 2006.
 - B. Create a GIS database that will identify the location, type and existing condition of drainage infrastructure components that require repair, establish a maintenance and repair schedule for DCR's drainage systems and infrastructure and, by April 1, 2006 have the capacity to track compliance with the maintenance and repair schedule and achieve operational completeness of this system by March, 2009.
 - C. Maintain and update the GIS database referenced above in paragraph B.
 - D. Develop a draft plan and budget for roadway and parkway maintenance that includes a schedule for street sweeping and catch basin cleaning and inspections, and that prioritizes heavily traveled roadways, parkways and infrastructure that discharge to impaired waterways by February 1, 2006.
 - E. Provide CWRA and CLF with drafts of the plans required pursuant to paragraphs A and D above for review and comment prior to adoption.
 - F. Prepare reports biannually, commencing on February 1, 2006 and every six months thereafter, on roadway and parkway sweeping and catch basin cleaning and provide copies to CWRA and CLF; the report will be available on DCR's website.
 - G. Provide copies to CWRA and CLF of required annual MS4 reports at least two weeks prior to filing for review and comment.
 - H. Develop a project timeline for the development of DCR facility and roadway/parkway storm water management plans and provide CWRA and CLF with copies of draft storm water management plans for review and comment prior to adoption.
 - I. Assign designated personnel to meet with representatives of CWRA and CLF at least quarterly to review and discuss DCR's progress and management of its storm water infrastructure, and any other issues that may arise relative to this MOU.
 - J. To the extent it is within the control of DCR, incorporate Low Impact Development storm water management techniques into new development and redevelopment projects by adopting internal policies and procedures by August 31, 2007, in consultation with CLF and CRWA. See attached flow charts from Olympia's

Stormwater Manual at pp. 31-33, 86 and 87 as an example and instructive resource in developing procedures.

(http://www.ci.olympia.wa.us/publicworks/waterresources/Images/pdf/SW_Volumes/SW_Manual_VOL1_Complete_050119.pdf)

- K. Commit to requiring a storm water plan from a party obtaining a license or lease from DCR whose activities will result in a significant storm water discharge that is subject to EPA Phase II MS4 standards.
- L. Specifically address pollutants of concern (i.e. pollutants for which receiving water is impaired) in DCR's storm water management plans.

II. CRWA and CLF shall do the following.

- A. Assign designated personnel to meet with representatives of DCR at least quarterly to review and discuss DCR's progress and management of its storm water infrastructure, and any other issues that may arise relative to this MOU.
- B. Review and comment in a timely manner to DCR on draft reports or plans submitted to CRWA and CLF pursuant to this MOU.
- C. Inform DCR of storm water impacts from abutting development of which CLF or CRWA become aware.
- D. Forbear the filing of legal actions relative to the MS4 program so long as DCR remains in compliance with this MOU.
- E. Provide DCR with ten days prior notice of any legal action if CLF and CRWA deem DCR not to be in compliance with this MOU; in addition, provide opportunity for discussion of non-compliance before commencing any legal action.

TERM

This MOU shall have an initial term commencing on the date of final execution through September 1, 2010 unless extended or renewed by the Parties.

AMENDMENT

This Agreement may be amended only by written agreement of the Parties hereto.

Agreed to by the Parties hereto:

Conservation Law Foundation

By: CLF
Carol Lee Rawn, Attorney
Date: 8/18/05

Charles River Watershed Association

By: Margaret Van Deusen (CLR)
Margaret Van Deusen, Deputy Director and General Counsel
Date:

Department of Conservation and Recreation

By: Thomas LaRosa
Thomas LaRosa, General Counsel
Date: 8-18-05



Appendix B:

Silver Lake Stormwater Improvement Project Educational Information

The Silver Lake Stormwater Improvement Project

How YOU Can Help!



- ✓ Keep litter, leaves, and debris out of street gutters and storm drains. These outlets drain directly to Silver Lake, local streams, and wetlands.



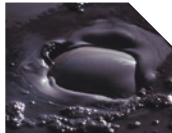
- ✓ Don't feed waterfowl! Bread and snack food is harmful to waterfowl and can lead to malnutrition. Feeding waterfowl discourages winter migration, can lead to aggressive behavior, and encourages large bird flocks that degrade the Silver Lake beach and shoreline with droppings.



- ✓ Apply lawn and garden chemicals sparingly (if at all) and according to directions.



- ✓ Dispose of used oil, antifreeze, paints, and other household chemicals properly. Do not dump these products in storm drains or on the ground!



- ✓ Clean up spilled brake fluid, oil, grease, and antifreeze. Do not hose them into the street where they eventually reach Silver Lake or other water bodies.



- ✓ Pick up after your pet! Use biodegradable doggie bags to collect pet waste. Don't dispose of pet waste in storm drains.



- ✓ Control soil erosion on your property by planting ground cover and stabilizing erosion-prone areas.



- ✓ Wherever possible, re-use rainwater for irrigation. Rain barrels are a low-cost way for homeowners to capture and re-use roof runoff for lawn and garden watering.

Contact Information:

The Silver Lake Stormwater Improvement project is a cooperative effort of:



MA Department of Conservation and Recreation
For more information about this project, including opportunities to become involved as a volunteer, please contact:
Sara Cohen (617) 626-1374



The Town of Wilmington
Contact: Jamie Magaldi, Asst. DPW
Superintendent (978) 658-4481



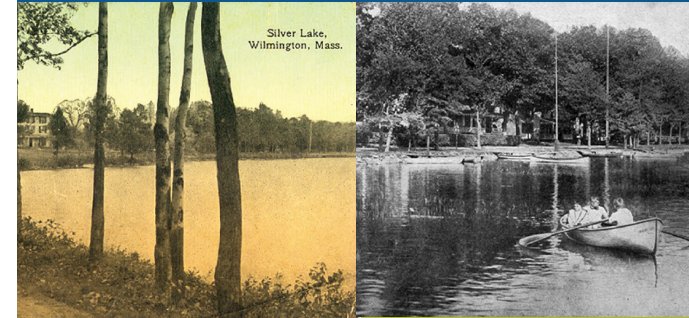
Project Partner:
United States Geological Survey



Project funding provided by:
U.S. Environmental Protection Agency - Targeted Watersheds Grant

For more information on **how you can help keep our lakes and ponds clean**, please visit
www.mass.gov/lakesandponds

For more information on **Low Impact Development** stormwater techniques, please visit
www.mass.gov/envir/lid



✓ Actions YOU Can Take to Protect Silver Lake



This brochure was developed by **GeoSyntec Consultants**
289 Great Road, Suite 105, Acton, MA 01720
Phone: (978) 263-9588



The Silver Lake Stormwater Improvement Project

As part of a restoration project for the Ipswich River Watershed, the Massachusetts Department of Conservation and Recreation and the Town of Wilmington are developing innovative designs to reduce the amount of stormwater runoff entering Silver Lake, improve the lake's quality, and reduce beach closures.



To reduce polluted stormwater runoff from paved surfaces, “porous paving” systems will be installed at the Silver Lake beach parking lot.

“Porous Pavers are permeable alternatives to concrete or asphalt.”

Low Impact Development (LID) techniques

will be used in three stormwater drainage areas.



Attractively landscaped “bioretention cells” and “rain gardens” will be used to temporarily retain and filter stormwater using specialized plantings and soils. An important goal of the project is to control stormwater in ways that not only protect water quality, but are an attractive part of the Silver Lake neighborhood.



Rain gardens will be constructed on selected residential properties in the Silver Lake neighborhood to promote infiltration and improve stormwater runoff quality.

A planted swale will be installed on the southeastern end of the Town Beach to filter and infiltrate runoff, replacing a stormwater pipe and preventing erosion during large rain storms.

Porous Pavers are permeable alternatives to concrete or asphalt. Porous pavers allow stormwater to soak into the ground between paving units, reducing the surface runoff pollution while improving groundwater recharge.

Porous asphalt is similar to standard asphalt, except that the smallest particles have been screened out, allowing water to pass through. Undemeath the pavement is a bed of sand and gravel which allows stormwater to slowly percolate into the underlying soil.

Both of these porous paving systems will be part of the Silver Lake parking lot demonstration project.

A “pocket wetland” will be created to provide a natural filter where a stormwater pipe currently discharges directly to Silver Lake at Lake Street.

In addition to the above LID techniques, select catch basins in the Silver Lake neighborhood will be improved, including replacement with deep-sump catch basins and infiltrating devices to trap sediment and pollutants and recharge groundwater.



Silver Lake Facts

Silver Lake is a 28.5 acre “kettlehole lake” formed approximately 15,000 years ago by an ice deposit from a retreating glacier.

Silver Lake has a maximum depth of 29.5 feet and a volume of approximately 108 million gallons.

The Silver Lake watershed (the land area that drains toward the lake) includes 132 acres in Wilmington and Tewksbury.

Silver Lake flows to Lubbers Brook, a tributary of the Ipswich River.

Silver Lake is located within the Ipswich River watershed, a 155-square mile area encompassing all or part of 22 communities in northeast MA. From its headwaters in Burlington, Wilmington, Andover, Reading and North Reading, this watershed eventually drains to the Atlantic Ocean in the town of Ipswich.

Silver Lake was once a summer resort destination with its own railroad station. Today, the lake is still a popular local spot for fishing, swimming, boating, and ice hockey.

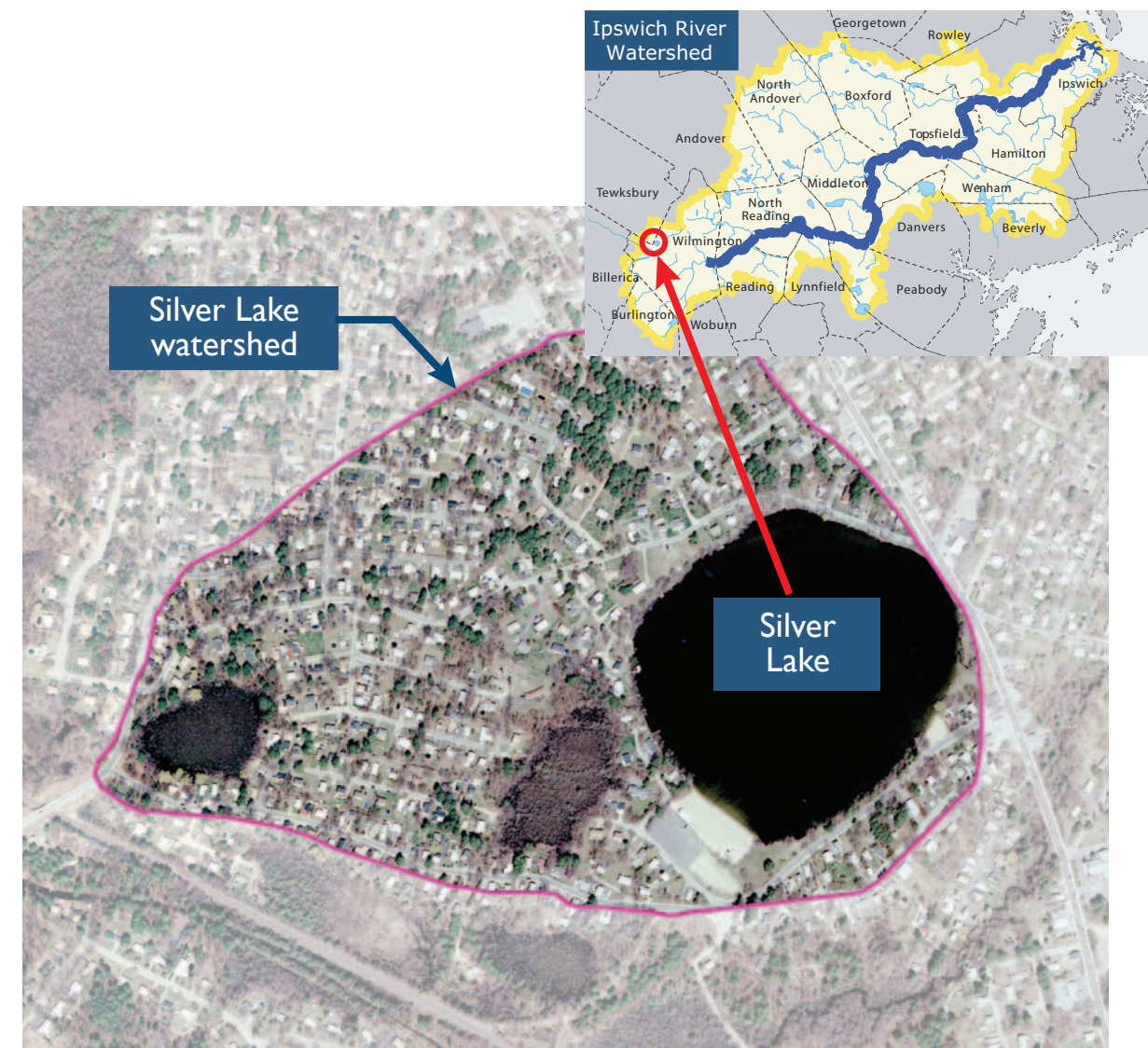
Silver Lake Water Quality Improvement Project

– a low-impact development demonstration –

The town of
Wilmington is
working with the
Massachusetts
Department of
Conservation
and Recreation
to improve water
quality in Silver
Lake through
**low-impact
development
(LID) techniques.**

How does stormwater affect Silver Lake?

Silver Lake is a “kettlehole lake” formed about 15,000 years ago by a retreating glacier. The Silver Lake watershed (the land area that drains towards the lake) includes 132 acres in Wilmington and Tewksbury. The storm sewers throughout this watershed empty directly into the lake, which drains to Lubbers Brook and then to the Ipswich River. Silver Lake generally has good water quality, but bacteria levels after storms can increase and lead to beach closures. Additionally, phosphorous and nitrogen from lawn and garden fertilizers enter the lake in stormwater runoff and can cause excessive plant and algae growth.



LID aims to preserve or restore a site's natural ability to manage rainfall. Instead of carrying pollutants directly into the lake, precipitation is filtered through soil and plants and soaks into the ground where it recharges the water table.

✓ How YOU Can Help!



- ✓ Keep litter, leaves, and debris out of street gutters and storm drains.



- ✓ Apply lawn and garden chemicals sparingly (if at all) and according to directions.



- ✓ Don't feed waterfowl! Feeding encourages large bird flocks whose droppings contribute to dangerous bacteria levels in the swimming area.

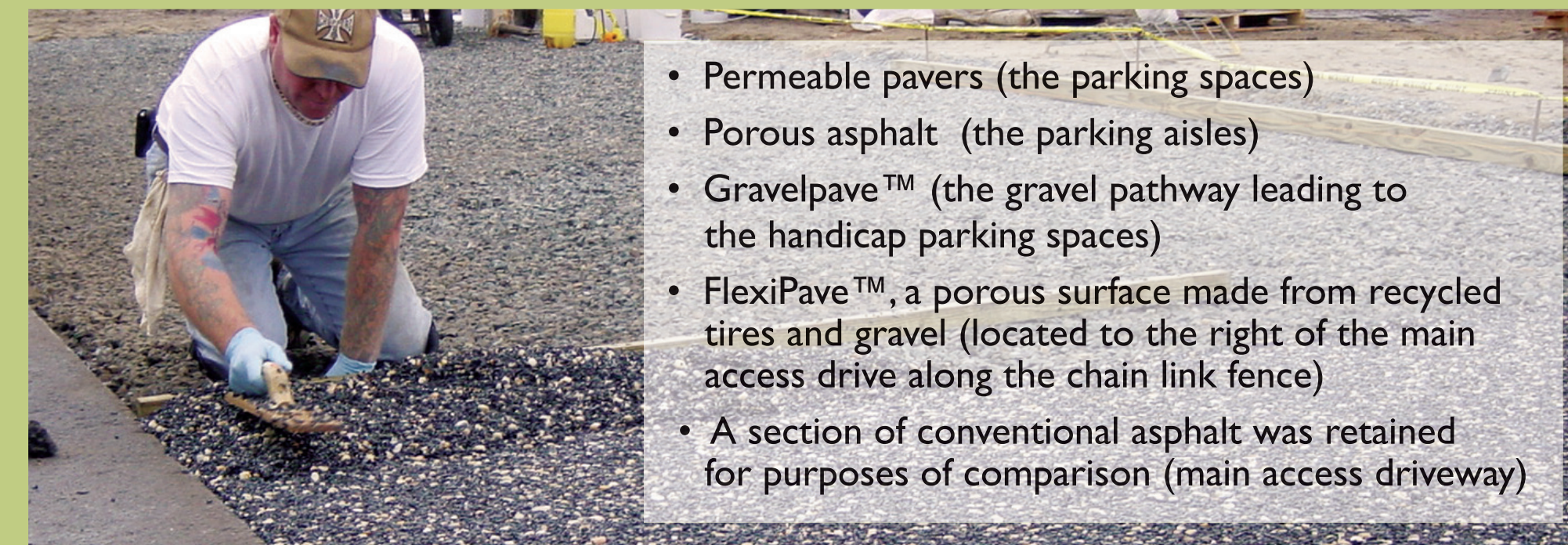


- ✓ Pick up after your pet! Don't dispose of pet waste in storm drains.

How does this project improve water quality?

Permeable Paving

Conventional asphalt in the beach parking lot has been replaced with four types of **permeable paving** materials, which allow stormwater to soak into the ground before reaching Silver Lake.



- Permeable pavers (the parking spaces)
- Porous asphalt (the parking aisles)
- Gravelpave™ (the gravel pathway leading to the handicap parking spaces)
- FlexiPave™, a porous surface made from recycled tires and gravel (located to the right of the main access drive along the chain link fence)
- A section of conventional asphalt was retained for purposes of comparison (main access driveway)

Other Features

Landscaped areas in the parking lot, called **bioretention cells**, use special plantings and soils to temporarily retain and filter stormwater.



Stormwater pipes at either end of the beach have been replaced by **planted swales**, which filter and reduce runoff, prevent erosion, and discourage geese from gathering.



On Silver Lake Ave. and Dexter St., across the lake from the town beach, **rain gardens** and permeable pavers were installed along the street. Rainwater from roofs, driveways, and the street will drain to these areas, where it will be filtered and recharged to the ground.



Scientific Study

The U.S. Geological Survey will collect data on groundwater levels and water quality under the beach parking lot (notice the observation well caps located in the parking lot), as well as the quantity and quality of stormwater runoff into the lake. The data will be used to evaluate the effectiveness of the LID stormwater improvement efforts.

Project Partners

This Silver Lake demonstration project was funded under the Ipswich River Targeted Watershed Grant. The grant was awarded by the U.S. Environmental Protection Agency to the Massachusetts Department of Conservation and Recreation. Matching funds were provided by the Town of Wilmington.





Appendix C:

Endangered Species Act Correspondence



UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL MARINE FISHERIES SERVICE
NORTHEAST REGION
One Blackburn Drive
Gloucester, MA 01930-2298

MAR 10 2006

Rob Lowell
Massachusetts Executive Office of Environmental Affairs
Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston, Massachusetts 02114-2119

Re: DCR NPDES MS4 (Shortnose Sturgeon)

Dear Mr. Lowell,

This is in response to your letter dated March 6, 2006 regarding an application by the Massachusetts Department of Conservation and Recreation (DCR) for coverage under the National Pollutant Discharge Elimination System (NPDES) Small Municipal Separate Storm Sewer System (MS4) permit issued by the US Environmental Protection Agency. Stormwater outfalls are eligible for coverage if the discharge or related activity is not likely to jeopardize the continued existence of any listed species.

As noted in your letter, a population of the federally endangered shortnose sturgeon (*Acipenser brevirostrum*) occurs in the Connecticut River from the dam at Turners Falls to the mouth of the river. DCR has identified one facility, the Holyoke Heritage State Park, with outfalls that discharge into the Connecticut River watershed. This facility has several stormwater outfalls which discharge into a canal that ultimately discharges into the Connecticut River. As the only discharge associated with these outfalls is clean stormwater and any discharge will be significantly diluted before it reaches the mainstem of the Connecticut River, this discharge will have no effect to shortnose sturgeon or their habitat. As such, no further coordination with NOAA's National Marine Fisheries Service (NMFS) is necessary in regards to DCR's coverage under the MS4 permit. Should you have any questions regarding these comments, please contact Julie Crocker of my staff at (978)281-9300 x6530.

Sincerely,

Mary A. Colligan
Assistant Regional Administrator
for Protected Resources

File Code: Sec 7 EPA CT River Mass DCR MS4





March 6, 2006

Julie Crocker
National Oceanic and Atmospheric Administration
Northeast Regional Office (NERO)
One Blackburn Drive
Gloucester, MA 01930-2298

Subject: DCR NPDES MS4 Permit Outfall Within Short Nose Sturgeon Habitat

Dear Ms. Crocker:

The NPDES General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s) requires that permit applicants review the potential impact of drainage system outfalls on federal threatened and endangered species habitat. We are writing to request your review of outfalls identified at DCR's Holyoke Heritage State Park for potential impact to Short Nose Sturgeon habitat.

The Massachusetts Department of Conservation and Recreation (DCR) has submitted an application for coverage under this permit to EPA and is awaiting coverage notification. In the Storm Water Management Plan (SWMP) prepared as part of the submittal, DCR stated that they would review storm water outfalls from their facilities for potential adverse impacts to rare and endangered species habitat. Outfalls are eligible for coverage if the discharge or discharge related activity are not likely to jeopardize the continued existence of any species that are listed as endangered or threatened under the Endangered Species Act (ESA) or result in the adverse modification or destruction of habitat that is designated as critical under the ESA.

During the summer of 2005, our consultant, ENSR, identified storm water outfalls on DCR parkways, roads and facilities in urbanized areas. In total, 1,403 outfalls were identified.

The Massachusetts Division of Fisheries and Wildlife informed ENSR that the Connecticut River is designated as short nose sturgeon habitat. Using GIS, ENSR identified DCR outfall locations within the Connecticut River watershed. The Holyoke Heritage State Park was the only facility with outfalls that met these criteria. A detailed facility map including the location of the outfall in question is attached to this memo.

COMMONWEALTH OF MASSACHUSETTS • EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS

Department of Conservation and Recreation
251 Causeway Street, Suite 600
Boston MA 02114-2119
617-626-1250 617-626-1351 Fax
www.mass.gov/dcr



Mitt Romney
Governor

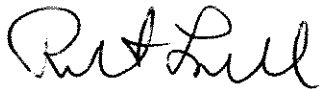
Kerry Healey
Lt. Governor

Stephen R. Pritchard, Secretary
Executive Office of Environmental Affairs

Stephen H. Burdington, Commissioner
Department of Conservation & Recreation

We ask that you review the figure and let us know if you feel there is a potential adverse impact from the identified outfall to the short nose sturgeon. If DCR could provide additional information for help in the review, please contact us.

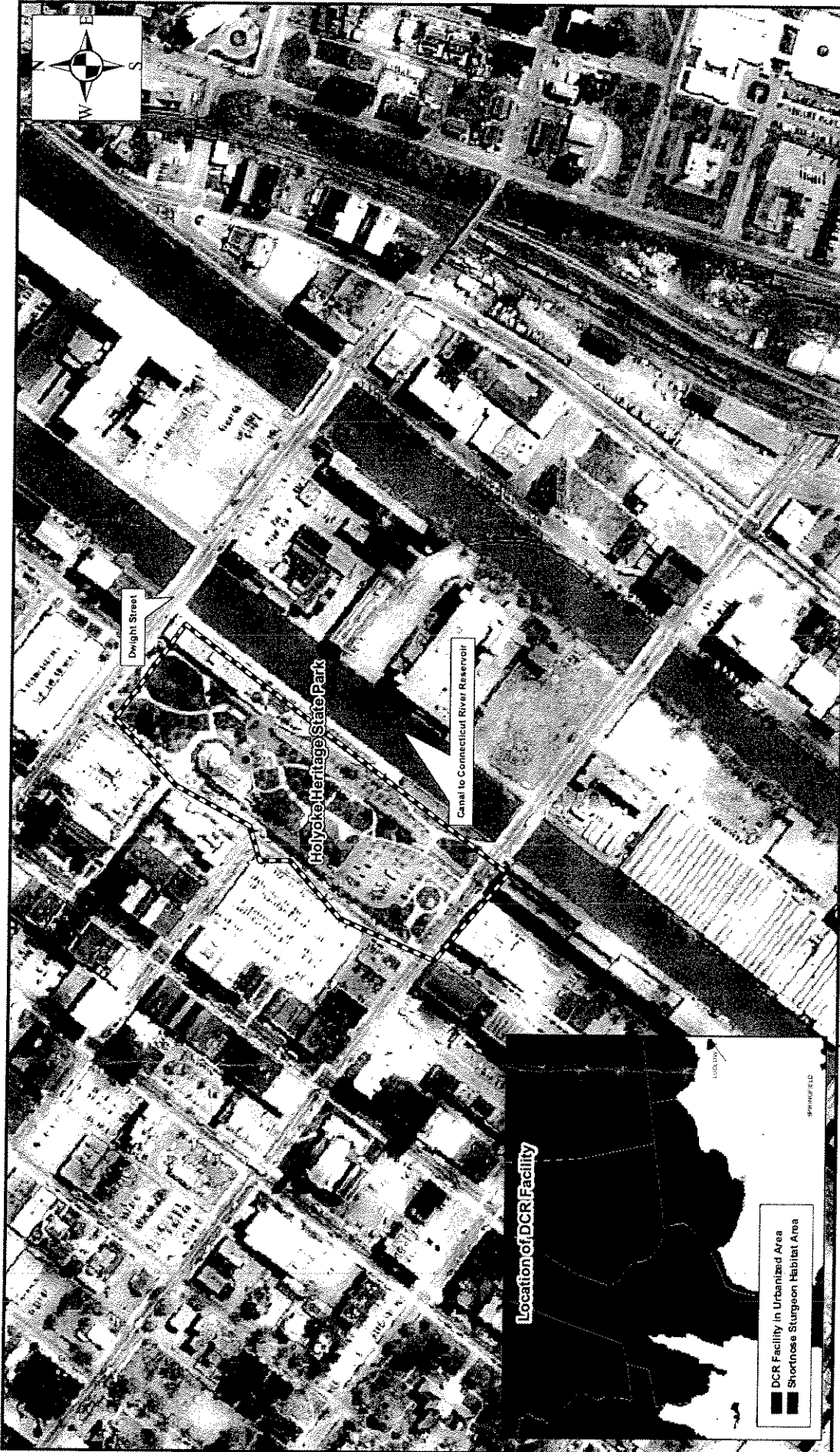
Sincerely,

A handwritten signature in black ink, appearing to read "Rob Lowell". The signature is fluid and cursive, with the first name "Rob" and last name "Lowell" clearly distinguishable.

Rob Lowell

Storm Water Manager

cc: Caroline Hampton, ENSR



ENSR | AECOM

Figure Number

1

DCR Facility with Storm Water Outfall to Short Nose Sturgeon Habitat Area:
Holyoke Heritage State Park

February 2008

Legend

DCR Facility in Short Nose Sturgeon Habitat Area
DCR Storm Water Outfall